<210> 3675
<211> 144
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057d07a1

<400> 3675

gctgatcgtg gggaggccag tgatgtgcga aatgaaggag atgcagcata atagctatag   60

tggttacaaa aggcaacaga taacagacga gaacggaaaa tatagggttt ggtgatttac   120

cctggatata ggatgaagag agag   144

<210> 3676
<211> 176
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057d07d1

<400> 3676

aaactattgg atataatgct ttgagcttaa gcatagttaa tcttacggac acaagtgact   60

ttttaaccaa cttgcaatga agcttaaaaa attagccaaa ggatgctttc tgcgatcatg   120

ggatccacca taatcatatg cgacgcttgc catgttcaga catagggtac cataat   176

<210> 3677
<211> 483
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057d08a1

<400> 3677

aagacttgga gcagaagaac ttgggtttat taattgaatg tcaaaaacac atggaggcat   60

caaaattttc tgatgaagtt atctctgagt tggagagtga aaaccttatg caacagatgg   120

agctagagtt cttgttagac gaaatcagaa agttcacaat ggggattcat caagttcttg   180

cagctcttca gattgattca ggtggggggc atggcaaagg gatcaagcca gaggaaatgc   240

ctatatcgca tattctcaat aatatcgagg gcttgaaagg ctctcttgtg aaaacccaag   300

aggagaagct gctgctactt gtagagaatg ctatcctcct aactgtactt ttgcaacaag   360

aatccgaggg agaagaactg gtgttagaga aaggatcct agagcaagag tttgaaaata   420

cacgagagca acatgcaatg ttgcagaagg tttagcttga acttgtggag atgaacaagc   480

aac   483

<210>   3678
<211>   409
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057d08d1

<400>   3678

gctgtaatca attgtttatt caaatgtaca acgcaagaaa aagaaaaaga aatccatgaa   60

ttgtaaatta atttatttaa ttaattattt ctttactttt ccaacttttt ttaatagccc   120

acgattttca ggcggctaat ataatataac cactacgcaa caacgcggga ctacagaaaa   180

agggtccacc cgcgttatcc tgtgatgccg ccgcaccgga tcgcgctggt cgccggaata   240

ttccttcgcc ggaaaactgc cgagcactcc ggcaactcgc cgagatcggc gaatagcgac   300

tcgtcctctt ctctcatcgg caccggcacg tcatctacct cgccgcagat cgggctctct   360

aggacgccgg tggacgctac gtcatcgaac cacccgaagt ggtggtggt   409

<210>   3679
<211>   540
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057d09a1

<400>   3679

tcgctgcgta atcagatcat atggtatgga gcatggcaga ggcggtcgag taaggaaaaa   60

gaggagctga cctcaaccct tgtaagttgg acaatgactt gactattggc gtgatctctt   120

tgctttctag gatcattaat acaggaaaat taaagtatcc ttttgctaat aaagctcatt   180

tgaaaacagt ggcatttgct ccaaccaaat tcactacaaa agggaaaaat acatgcagta   240

tcattttaag gactggtcgg ctagaattcg gctcacactg atacatgacg cttttcgagt   300

gagggagaac tccatagaaa ttagaaggag agagagaaat agaaactaaa ttttgaattc   360

ttttttttcc tactcttgta tcagtcatta caatagtata tatagccatg ccacacctaa   420

gaacaaaata caataacaaa atgcagttac agaatgctaa caattgccaa atgctttcta   480

gaacctactg acttattact cgggcttagg cctcatatct aaaagaaaca tatggaaata   540

<210>   3680
<211>   457
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057d09d1

<400>   3680

gtaaaaagca agtaacatta agttggattc ggatacacaa gataattcac attatctgaa   60

gtacttcacc aaacacaaat ctaaaaactc tcaaaagtca tttcgttctt tgacgctcac   120

tttccgggga cgaagttggt ggcataggcc caggcgttgt tgttgacagg gtcagcaagg   180

tgatcggcga ggttctgcaa tggaccctttt ccggtgacaa tggcctgaac aaagaagcca   240

tacatagaga acatggccaa tcgtgcgttc ttgagttcct tcaccttaag ctcagcaaaa   300

ggccttgggt catcagcaag gcccaatggg tcgaagctgc cacctgcgta gatcgtgtca   360

gtgacctcac cgaggggggcc accagcaata cggtaacctt caacggcacc cattaggata   420

acttgtgtgg accagatggc gaggatgctc tgggcgt   457

<210>   3681
<211>   578
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057d10a1

<400>   3681

gcctcgctct ggtagacagg ctaaattggg tgagaaaaac aagttctatt atgatgagaa   60

gctgaagaga tgggtggaag aaggtgctga acttccagct gaagaagctg ctgctctgcc   120

accgcctcca acaactgctg ctttccagaa tggttcatct gaatacaact tgagatctgc   180

attgaagact gagagatcac ctcctattga gggctctaac ataagaacta ctagccctga   240

gcttagtcca gggatgccac cgataccacc cagcgcagat caattctcag cccgggggtca   300

cttgcgtgtt cgatcaaggt atgatgacac ctttaaccaa agtggtggaa cctctgcaaa   360

cttgtctcag ttccctgctg ctccatctgt gaaaccagct gttgctgcca atgcgaagtt   420

tttcgttcct actgccgcac catcaaatga gcagacaatg gaggctatag cagacagcac   480

1503

```
gcatgaagat agtgcaacaa atgagtgttc gtaccaatcc cttaatcatc aacgaccata   540

cataggtacc agtttgggaa catctcaaac cgggagca                           578


<210>      3682
<211>      487
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057d10d1

<400>      3682

agagaaaagg gggttataaa tttatattat acaataaaaa aaattcagca tcctttggtc    60

aacgtttctc caagtcttcc ctgatctaga agttggaact cccgtttgaa tctctggatt   120

aacctgaact ttgttctttg caacatatgt catcctatcc ctaataatat tgtgtaatat   180

tggatagtag aagcatttca gatgaataaa atagttaaat aagtaaatca actttgtgag   240

aataaccaag aagcattgcc atggcagccc tagctcatgc taccatctgc tcctgctcta   300

tatacagctg ctccatccat ggtggaagca tctctttact gagatcatat tggtgcttct   360

cagcaccaaa tatctcagac ctctcggagg gaacatcttt aaccaatgaa tgaacccatg   420

agacatacgg ctcagcacca aattcaggct gtgctatggg ggatgcagtt accccactga   480

ttctgaa                                                             487


<210>      3683
<211>      399
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057d11a1

<400>      3683

gcagaatgag tctcatggta ttgttaatca acttcctgag caagggatcc ctgtcatgat    60

tacatggaac tatggtggta caatgtggc tgtggaggga tcttgggata actggacatc    120

taggtgagat ttaacgactg cttttttggt aacagtagta ctgaattgta tttgacatga   180

aaagttatca taactgcaaa tgatctacaa tgagattagt accagtgaat tctattactt   240

gcaggaaggc attacagcga tctggcaagg atcactcaat ccttatagtg cttgcaccag   300

ggatatatca ttacaggttc attgttgatg gtgaagagag atttactcca gagctatcca   360
```

atgtagctga tgagatggga catgtgtgca atcttcttg 399

<210>   3684
<211>   300
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057d11d1

<400>   3684

aagtagaaaa ggtacaagta ataatcatca ttaaaaatag tgtccaagac tatataaacc   60

acaaacacaa tttagacaaa ttaatgttgg atccttgggt tactgtagca tgtgtggcaa   120

gatgatctta gtaggagtaa cctttgacga acattccccg agtggcttcc tcagattcac   180

cctaggcagt gtactttcca agctgagcga atgagttgga cttggcacgg aaaaggagtg   240

cattttgagc agcctttaag ttctcaagga gtccacccca tgttttcaag caagtgtttt   300

<210>   3685
<211>   293
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057d12a1

<400>   3685

acatgacaga cacaacatga tccttgccct gaaggatatt gggccataga actagctatt   60

ggtgctggca gcctgttgat tctattaaag caaaaatcct ttgtgtagcc tatatattgg   120

tttgttcaaa acctggctta tggctgatat attctagtcc gactagtctt aacagtggtg   180

gttatggatg aggtacagac tctatatgac atgctttgtg gcaatatctg ctgtcctatg   240

actatgacat acctgtggga attcattgtg caaaagctta ttttgactgg att   293

<210>   3686
<211>   324
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057d12d1

<400>   3686

aacacaggat aaataacatt ttattacaaa gtcctccata gcatacaata acaaagttac   60

atccttc attaactacc actaacaata ccgttatagc cgggtcaaaa tgctgaattt   120

aaacaaaact aaagagatga agcacatgta catttatttt tattttatg aaacttagat   180

tgaaacaata caacttaact atatgttgat gctttgccaa gtgattctgc aatcttactg   240

gcaatacagt aagatgtaga ctgaatggtt accatggggt tgacaccaac tgcactaggc   300

aaaacactcc catcacacac atac   324

<210>   3687
<211>   506
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057e01a1

<400>   3687

gtctaaatat ggagtcctct aggaggtaca aagtggttgc acagagaaag gccttgtaca   60

gatgatgctt gctgtgttaa gcgtctgaga ttatgtggcg ccatacttgt tgggaagact   120

aatatgcatg aacttggggt tggaattagt ggtatcaatc cacattatgg gaggttcttc   180

tagtggatct gctactgtgg tgtctgcagg attgtgccct gttgcccttg gtgttgacgg   240

gggagcatgc ttgttcaggt tctgtgaggg tgcctgcatc tctttgtggt gtagttggtc   300

taaaaccaac ttttggccgt gtacctcatt ccggagtcct tcctctaaac tggacagttg   360

ggatggttgg aatactagcc ggcactgttg aggatgcatt gatcacttat gcagccatta   420

gtggagaaat ttcatcccat cagccctcta atatgcttac caagataaat ctttcactgc   480

tgcccttgac gaaatccata tgtgac   506

<210>   3688
<211>   268
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057e01d1

<400>   3688

aaaaccaatt agaatgacgt ttagattaca aagcaaaaaa gaaatggaac aaaagcgaag   60

ggacaagcaa gaaggaagca agagctgatg acgagatca cgagaagaag gacccgcgag   120

aatgcaggtt gaacatatca ggcggtgggg tcaagagcga gaccgcccta gacccgggag   180

1506

ttaccattga gggtagccga agaccggatg accaaagcgc tgggccctgg aagaagatag   240

agtgtgctgt agaatgcaac cggcgagc   268

<210>   3689
<211>   479
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057e02a1

<400>   3689

cagccacact tcttcgccgt ttcagctgaa gagccatccg caggtaagca atggttaagc   60

ataataatgt tatccccaat gggcacttcc ggaaacactg gcaaaactat gtgaagactt   120

ggtttaatca accagcccga aagaccagaa gacggttggc tcggcagaag aaggctgtca   180

agattttccc caggcctact gctggatctc tcaggcctat tgttcatggc cagactctga   240

aatacaacat gaaagtcaga gccgggagag gattttcact ggaagaattg aaggctgcag   300

gaattcccaa gaaacttgct ccaactattg ggatttctgt tgatcaccgc agaaagaatc   360

gttctttgga gagtctgcag gccaatgtgc agaggctcaa aacctacaag gctaagttgg   420

ttgtgttccc aagaagggca cacaaagtca aggctggtga ttctagcctt gaagagctg   479

<210>   3690
<211>   443
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057e02d1

<400>   3690

tttatttttt tttttttttt ttttgggaag aatcattatt ttgctctatt aaccatccat   60

gtttacaatc caggaaaata taacagttaa aaaaatgatc atgaaaaaat cttaaaaaaa   120

aataactatc taaaatttaa acaggcgccc gtacctaggt ccgctgttct acatttacaa   180

gggcacgagt atattgaggt caaagcccta catgaaggtg ctatatataa actctagtaa   240

attgtaactg accctaagga atattggaca taccacgcgc aaaatgacta aattcagggc   300

actacaaaac cacaacacca ggaaacaaac aaccagttca taaatctttt atctggcacc   360

ttgagaagac cttggataga aatcccagaa gctggaacca actgggttga tgggacctac   420

cgatgtggag caagcaccca ctg   443


```
<210>      3691
<211>      136
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057e03a1

<400>      3691
```

attgcatcca atatattaat atatgttgag cacgttgaag atgattaacg aagatttata   60

atttgacgag ggccctcatg agcgcataaa gattatctcg tttggtcatg tggcacgagt 120

ggcccttatg tcctca   136


```
<210>      3692
<211>      358
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220057e03d1

<400>      3692
```

accatacccg ctgctgtagc attatacaca ttattattac tcttgctccc gtcaagataa   60

atctgacccc ttcccctgtt cccacctacg tatataggat attttaagaa atgaacatct 120

ctcttagtag tgggatccgg ggaaagaata ggaaaggtta tttctttata tttttgacca 180

ggaacagggc ctaccacaag aatatttttt tttgtacgac gatagttttg aaaagacaga 240

ttgcctatct tctcgttaat ctcaggcgaa atacgatcgg tgggtgccaa ttcaaaacct 300

ttcggtaaaa tangaacagt ccccacattc aaagctccct tttaccatta gcaagaac   358


```
<210>      3693
<211>      381
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057e04a1

<400>      3693
```

cgaaaaagta acaaatcgt aagaaacaga cgcataagtg atccactgaa accctaaacg   60

catcagtctc agccgtcgat gccgtccagc aagtgaggtc gcaccgtcgt cgcaagacgc   120

actaccctgg ctgccggaca atttgggctc aaagtctcca gccaattgat atgcacaacc   180

ctagcaggca gtgagtgaat gagtcaagat gggaagatga gggaggaaga gatggctaag   240

catcgatgag tggtgcgaga ctgcgagagc aggcacctct actgctacgc atcttcttgg   300

ccgacacagt gggagtctta accggcgacc tctgatacat atacatgcaa gctcaggtcc   360

tatttctcag acgtcactac c   381

<210>   3694
<211>   543
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220057e04d1

<400>   3694

ccttcttctc ctctatctat tctcatacta tctctgtcta cttcatatac tccctcatct   60

ttccatcctc ctattcttat tatgcagttc atacatcctt cataatatcg ctccctactc   120

tccacatttc gacgaccagc acacgccgcg tgtttaanaa aannaaanna aaaaaaaaaa   180

aacaacctca ctagaacact agacggcccg ccgccctttt tttttttttt tctattgcaa   240

agtttaaact tgcacgatta tcatcagaaa aaactataca atattactat ggaaatcacc   300

ccgtaacaca atagacgact tgctcatata cattcccaaa atgacaacac ctatataaac   360

agtgatttct atatgcagta aaatacaaca aaattgatat ttcagccttc gtttccagaa   420

cagcatatat ctgaacaaca tgtgatgcaa ccgaagcatc ctagaccaat gcagagttgt   480

gtcaatgcag ttgcacattg gttggttatc cgggtacaac actggatgca gcacatgcca   540

caa   543

<210>   3695
<211>   394
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220057e05a1

<400>   3695

tgcatttgct ggtgaggcga ctcatctctc tctctctctc atctctccct ctctgtcatc   60

tctgccttcc aaaacaaagc accaattgtt tcgaacgcca acgcgaatca cgaagagggt 120

caccgcgaaa atgggtgttt gcgggtcgag gcccaaagtg aaccaggacc tctcagagaa 180

caagaagaac atccaccacc gaagaagaag agagtgaatc ctcctaagac gcgttgcttc 240

tataaagatc gaagctcaca acgtttctca ctgcaatgga gctattcaag cttctaatgg 300

cgcttctgat gctgcttgga ctgattctac ttcggcattg gactctgagt gtgatgacga 360

atggtacacg tgtctattat ggagaagtgt ctac 394

<210>   3696
<211>   427
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220057e05d1

<400>   3696

tgtcgtcctt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttgt 60

ttttggtttt ttttcttttt tttttttttt tttttttggaa aatttccacc tttccaaaaa 120

acccacaaaa gccaaaaaaa acccgggccc caaaatagaa ccgggcccaa ccccaccggg 180

ccgaaaaacc ccccgggggg cccacccccc cgggggggcc cccaataacc ccccaacaa 240

aagcccccccc caaaccgaaa ccccccagag ggggaccccc ccaaaagccg gttacccggc 300

atcccccccc ccaaaagttt cgggcagaac caaaacccgg gcaccaagga agcccccgga 360

ccccccggccc cctccaagcc ccccccaac acccgggtca aaccccctc cagggaaaca 420

aaaaccc 427

<210>   3697
<211>   503
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220057e06a1

<400>   3697

ggaagtttta ttttcgggt gtgtagagat taaagagagg aaggggaggg ggctgacaca 60

ttgttacctt gtaatagggg tttactgaag gtcttggctg gtgtgaacac aaacttcact 120

gtgacgtcaa aagcagcaga tgatggagaa ttctcagaac tctacatctt caagtggaca 180

tcactcttga tccctccaat gaccctacta atcatgaata ttgttggggt ggttgttggg   240

gtctcagatg ccatcaacaa tggttatgat tcatggggac ctctctttgg tagattgctc   300

tttgcattgt gggtgatcct gcatctctac cccttcttga aggggctgct tggaaaacaa   360

gatagaatgc caaccattat attggtttgg tcaattcttc tggcctacat cttgactctc   420

atgtgggtca gaattaaccc gtttgtgtca agagactgcc ccgtagtaga aatttgttga   480

ttgaattgcg acgagtcttg aat   503

<210>   3698
<211>   481
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057e06d1

<400>   3698

gccacgaaca aaaaagttgg cttttctaa ataaaacctt tttaactttt caagtatata   60

tacataaaat ttaaatgtta tcactcgtac aaaatcactt ggctgataat aagactaacc   120

tgtagggtcc aaaatctaat attgtttctc ctcttcactg ccatcatctc catttgtctt   180

atccccatcc ctgatttctc catcactcaa ctgcatatca gcagagtttt ctcttgctgg   240

acttgactgc ctttgtatta atggttcgtc atcatcagat tctgataatg cttgccttcg   300

ccgggctatg cttgaggaag gtgcaggcgc ttcctcatct gcatcggaat cttcaagccc   360

agctgctgca agaagaccct gagcattttc ctcagcatca tcattcatct gagtttgggg   420

ctcctctctg tagtttatgt cagcttcttc atcctccatt tcctgatcat ccatcatatc   480

a   481

<210>   3699
<211>   433
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057e07a1

<400>   3699

gcaattgctc tgagagagaa aagcgcagct tgtatcatcc acgttactct ctccatctga   60

aagcagcacc gccgctgagt tgagtaatat ccgagacgcc accacagtga atattcaact   120

1511

tggatactct gtagaggtta ttgcatggtc accgagatcc ggatccctaa tctatgccct   180

atcagctcta accaccgaca gcaagacgac acattgctga ctatccgttg ctgtaaagcg   240

ttacgctcgc ctctcctctc caaatgcggg atgtcctcga tactggctcc aattggaagc   300

tggtggtcct tattcttctt cttattggcg gcattcctcg tacattgcct agctcattac   360

gggcccttac tatgagcgaa tttgcgacac gactctacgc gacggcgagc agtccccggg   420

cgccttcatg acc   433

<210>   3700
<211>   420
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220057e08a1

<400>   3700

ggttgattta cattggaaat caaagatgcc aagttccgac atgccttcca aaactgtaaa   60

actctctctc tccgacaaca agtccttacc ctctttgcaa ctacccttcc gcaccacaga   120

tatctctcac gccgcacctt ctgtctgcgc cacttacgac tactatctcc gtcttcctca   180

actcagaaag ctttggaact cctcagattt tcctaattgg aacaacgaac caatcttaaa   240

acctatcttg caagctctcg aaatcacctt ccggtttctg tacattgttc tctccgatcc   300

aagaccttac tccaaccaca gagaatggac tcgcaggata gagtctctta tcacacatca   360

aattgaaatc attgccctac ttcgtgaaga tgaggaacca aattccgacc cacgtggcac   420

<210>   3701
<211>   330
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220057e08d1

<400>   3701

aacccaataa acaaaggggg ggccttttta aaacgttttt ggcccccttt aattccaaaa   60

gggagccaat acctacattg gaaatattcc ccaaaccttt aggggcatta aattttcccc   120

ccaaaagaaa aaatggcccc agaaaaaaaa aaaaaaaaaa ctattgtatg aaattagaac   180

actgttatat aacccccaaa agtttttttt ataagtatgg cgctttttct tacctatcta   240

1512

aacgtttttta ccaaatgaga tcttaaccgg gagaaatttg atcaaaggac aaaacctttg 300

gggatttcgc agggaaggaa aaagggaaag 330

<210>   3702
<211>   60
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057e09a1

<400>   3702

aaatatgata acctgatgcg cttctctcct gtgtcattat ctctgtcttg ctatgctttt 60

<210>   3703
<211>   419
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057e09d1

<400>   3703

ataaccaact taggctgtac ttaaagggac aaaaatgaaa taaattaacc aacggaaaaa 60

gccggtaaaa cggtcagatc cattaaaggg tgtgggaaac aaacggagtg gccccaaaat 120

acaaggggggc caagacaagg gaaaaacttg aaaacatgca ggaagcggat gccaaggaaa 180

cggagctaga ttcgcaaggg accgccgcgc ggccattaaa ggacgcattc tgaaacagcg 240

acctacctgc aggttacggg aacgaccagc cggttttttga aagggtaaca ggtggggcag 300

cgaaaagctg tatacacccc aattacccgg ggggggtcaa aaacacaaat ctttacaacc 360

gggaagcttg aacaatatcc ctaagcgggg gatcccagag aggggggaaat gaaacggaa 419

<210>   3704
<211>   283
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057e10a1

<400>   3704

aattactttc tctctagacg ttactttctc tattctcaaa gtcacacaca gcactttctc 60

tctcatctta actctctccc atgtctcctc agtttcatcg atggagagtg aagccttaac 120

tctgcttatt ccgtgtccca gatctagctg ttgcttccga gtctttgatt cttctcttat   180

ttcttctgct cacttcacat tccgattcgg cgcagattct tttggctgct aaacattagg   240

atctggactg actgcatcgg tgagcgctaa ttgcaggcat ggg   283

<210>   3705
<211>   513
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057e10d1

<400>   3705

acaagaatta agaaatacca tatcaatcaa tatatgggcg atattcatga atttcagtca   60

cgccaaaatt tattattggc tgcagataat gttaaacttt gaaaatctct cctcagacac   120

cgtctgaacg aacaatttcc ttctttttca catgatacgt taacacaagg caaagagtaa   180

aaatggtttg ctgctggtaa tggtaatcat caaatcagaa aaaggcgctc tcctctattc   240

atatactttg cattcctcat cagcagggtt tgtctcgcag aattcctcca atgggtctcc   300

actccctgct ttagctgccc ctggccactt gcttgctact aggtgtgcca aatgcaccac   360

cctttggctg taaccccatt cattgtcata ccaagcaacc atcttaacca tgtcatctcc   420

catgaccata gtcaaggagg agtcggtagt agaggaaaca tcagagctgc ggtagtcgat   480

agacacatgt ggaacatcac acacgttcaa cac   513

<210>   3706
<211>   402
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057e11a1

<400>   3706

aaagaaccct caattttccg ggaaaaccct tcccacaatg gtttcccggg aaaacaccaa   60

ttggctcttc gattacggct tgatcgacga tattcccgtt ccggacgcca ccttcggcgt   120

caattcctcc gccttcacat ggccccctaa cgccttgaac gcttcctcca atgtcggcgt   180

tgaaattgat ggctcgctgg gggattctga cagcctcaaa gagtctggct catagaaaag   240

ggttaggcct gagtcatgtg ctggttttgg catcaaggca tgtctggaga cagtgagacg   300

1514

```
ggatcggctt aatgacaagg ctgttgaact cggcgccatt ttggagcctg gaaagcctgc    360

cagaacagac aaggctgcta tactgattga tgctgttcga at                       402


<210>      3707
<211>      379
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057e11d1

<400>      3707

gtctaactgg aaccatataa gatatatttt acgaacatta ttgatgtctt tcgccaactc     60

tagaactaag tgtatatact gcttagtatc ctgaaaactc tcaactgtgg tacatgctga    120

aactgtcaat gcctcacata tgacactaca tatgcttctt gcactaactg ctccggaaac    180

aaatgataca atggttcagg acttatactg cacaacatgc ttaaacatag ctatctccat    240

tcataaaaga atcttattat ggaatccagt tcgtgatcga acttccatat tcactatgac    300

actagtactg gagcatatgg ctatcgatt gctacttgac tgccacaatg caatgataaa    360

tgcgtcatat gagattctc                                                 379


<210>      3708
<211>      435
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057e12a1

<400>      .3708

gttgaaacac aaagaagaaa aaatgggttc ctctttgtgg acttgtctga ttttgttatc     60

acttgcttct gcttacttcg ccgccaaccc aagaacacca attgatgtgc catttggcag    120

aaactatgtg cctacttggg cctttgatca catcaaatac ctcaatggtg gttctgagat    180

tcagcttcat cttgataagt acactggtac tggcttccaa tccaaaggat cctacctgtt    240

tggtcacttc agcatgtaca taaaattggt tcctggcgat tcagctggca cagtcactgc    300

tttctatta tcatccacaa actcagaaca tgatgaacat agactttgag ttccttgcga    360

aacagtaccc gggcaagctt acatttttgc aaactaaatg tgttcactgg gtggcagtga    420

tgacagagaa caaag                                                     435
```

1515

<210>   3709
<211>   303
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057e12d1

<400>   3709

atagagaaat ctacacgaat atctttatt aaagcatata ctcactaaag aatcacattg   60

taaatttaag aattataaca gataaaaatc gctgtaaggc tactaattta atgtgataat   120

ttgaacgtcg accaaagttc aaacttgcaa gaaatttaga aaatcttgct aatgatcgga   180

cgtgctttac attgggcatc caatggaatg gccttgggca ctatagttcc ccccccttcg   240

ggcatatcta ctgtttcctc accaatcctt ttccactcaa aacattgaat caacgaacct   300

taa   303

<210>   3710
<211>   500
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f01a1

<400>   3710

gcaaaagttg tcattgatag gctaactggc cggaccaagg gatatggctt tgtaaggttt   60

tcagatgaga gtgagcaagt gagggctatg actgagatgc aaggggttct ttgctcaaca   120

agacccatga ggattggacc cgcctctaat aaaaccccca ccactcagtc ccagcccaaa   180

ggtatgtctc tttctttatc ttgtttgttc tttttgctgc aaatatctct ttcatatgct   240

gcttaaggga aaattgagct gtccttgtta gatgagtgat actggttgaa tttaatgctg   300

tgtctcagaa tgttgttttt ggtgtatgct aaatgttatt aagttttgat tcttttcagt   360

tacacacttg aagattcgca gtcaaactca tttcttcctg caatttcctt taaaaatttg   420

ggcaaaataa attatatata ataataaaat cttatagaac tcatgttgtc tcgaagcagg   480

gtgtcaagag gctctgtcat   500

<210>   3711
<211>   156

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057f01d1

<400> 3711

tttttttttt tttttttatt tttttttttt tttttttttt tttttttttt tttttttttt   60

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt   120

tttttttttt tttttttttt ttttttgaa actttt   156

<210> 3712
<211> 401
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057f02a1

<400> 3712

ctccaaaccc attggattcc cctttggcaa acccaggttc cacccatttg ttcacagtag   60

ccaacaacaa ctccatcagc accaatcctc agcatcttga aagatatcaa gctcaagact   120

agtgctatat attttgagtt gaggcttgga aattgatttg attttttgtat atagggaagt   180

taattaattc tgagaggctt atagttttt ttttggtggg ggtggagacg gttatataga   240

atttggataa ttggttttt ttccttgttt gaatctctct ctgtattttc cttcttttac   300

tggttttatc catggtgaaa tcagaaagaa ggcagaagaa aattttagac agtgaagatg   360

atagatatca aagagaaagg gaaatgatac tggttttttg t   401

<210> 3713
<211> 400
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057f02d1

<400> 3713

acaagggcaa acagttacct gaatttatta tttctcgcag aatgaaagcc ccgatagaca   60

gtcaagtcaa gctttatgat acattagacc ccaaaatccc aacaacatta tttaggtgag   120

cagttttat atcggacttt cacatgaaag ggtgataaag gcagataaaa gcatattctt   180

tcaacccacc cgaccatggg ggtaaagccc agggcaatgg tatgacttaa acggggaccc   240

atttcagaat tttttttaaa aacactggag attttggaa ttggttcaaa atccaaaacc   300

cttgttatgg gaaaacccc cttttgggg aaccagcccc cacccccaaa ggggggggtt   360

cgcttgggct gactggataa acttcttttt ggaccctttg   400

<210>   3714
<211>   478
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f03a1

<400>   3714

tgtctctatc tttggttctt ggagtggcca atagctttga ttttcacgac aaggatttgg   60

cgtccgagga aagctttttgg gacttgtacg agagatggag gagtcaccac acggtttcgc   120

gaagcctcgg tgaccagcac aagcggttta acgtgtttaa agcaaatgtg atgcatgtcc   180

ataacactaa caagatggat aagccttaca agctgaaact aaacaagttt gctgacatga   240

ccaaccatga atttaggagt acctatgctg gctcaaaggt taatcaccac agaatgttcc   300

aaggcacgcc acgtgggaac gggaccttca tgtatgagaa ggttggtagt gttcctcctt   360

ctgtggattg gaggaagaat ggtgctgtca ctggtgtaaa agatcaaggc caatgtggta   420

gttgttgggc gttttcaact gttgtagctg ttgaaggcat taaccaaatc aagacaaa   478

<210>   3715
<211>   143
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f03d1

<400>   3715

atactcctca catttattat atgacgggca acatgcctcg gatgcgaacg cccattggct   60

tagaatccgt accttgaaaa tttgatctaa cagctcatgt tttccatgct gcacctccct   120

atcggaggac ctctcatcaa acc   143

<210>   3716
<211>   254
<212>   DNA
<213>   Glycine max

1518

<223>   Clone ID: jC-gmfl02220057f04a1

<400>   3716

gctgtctcga gtctttgtat acactcacca atggacgagt gatacagcag gaagcaagac   60

ccggactggt acctaaagac acatgggact gtggtctaag taacaggacc ctcagccact   120

tgagtagccc caagtatcaa ctactgccgt gatggacccg gacgttctga acatgctcga   180

cgatgccgcc aacgtcacgg agcgtgagcc taacatgcag ggtgtcgact ctgacattga   240

cagtaccctg ggga   254

<210>   3717
<211>   233
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f04d1

<400>   3717

ggcggccgcc cttttttttt tttttcaac aattttgctg ttttatttga ggaatcgcac   60

aatgcaccat actaacgcag gacgatcgca ggaacctaaa ccggataacg agcaatgcaa   120

gcaggcccgg gcccaccaac cggggccatg gcgcttacgc agggctgtca cacagcactg   180

acccatctaa aggcacttcc acaatctatc tggcacacca tgtcaccctc ctt   233

<210>   3718
<211>   506
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f05a1

<400>   3718

gctaaatgac ctaagcaaga gacgatcaga agaaaccatg agaatgaaag agatcatttc   60

taaggaggag aaggcaaaag aattagcaaa actagaaaga gagaaatatc aagatgcatc   120

acgagaagct gaatatttga agaatgtgc tgaaagagaa gcggcagaac agaaagaaat   180

ggagttgaga gccattcgcg ctgcaaaaga gaaagaaaag ctggaggatg ctctcagagg   240

ttccacgccc cagtaccgga agtttacatg ggatgaaata atcttagcta cttcatcttt   300

ctctgaagat ctgaaaattg gaatgggagc gtacggagta gtatacaagt gcaatttgta   360

tcacacaact gtagctgtga aagttctcac tcttaacact aacgtataca gcataagata 420

gcaattccag caggagttag agattttgag cagaattcgt catccaaact tgcttcttct 480

actagtgcat gtgcggatca tggatg 506

<210>   3719
<211>   341
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f05d1

<400>   3719

aagggaagga tgggccgtac atatctggta tgaaaggccc aaaaacagat gggacccccta 60

tctgtacatg tgccatatct ggcaaactaa gggaagattt tatgatctac ccagggacaa 120

gttagccttg aaagggtttt gggggcaaaa agattttaaa atacaatacc cccaaacaaa 180

cacacaaatt ttttaataac ctttttttt tagtttgcag gaacaatacc cggctgaata 240

aaaaggtgtt caaacaaaga tgagaggcga gcaactttg cttttacctt ttaaaaacat 300

tcagggtaat ggggccggg gataaaacgg ggggctttt a 341

<210>   3720
<211>   347
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f06a1

<400>   3720

cttgacgagc agtcgatagc aatagcttga cgcgccatgc tcgcctacga attctggtcg 60

tgcggctgca gaatgcactg ctacactgtt gagagaggca catccatgtc agttacgtga 120

ggccatgagg attcgacccc ttgcaggaga taggcttggt ggatctattg atcagcggcc 180

aggtatgttc gaacaggtct ctagacgcat agatctggcc gtagagactc ttactgcata 240

cgatcgggga cgatattgcg agggacacct cctatgactg tatgggcctg cgcgtgtcgg 300

ggactctaac cgtgcataac ctgtaggcaa aagtgacgga ggaggca 347

<210>   3721
<211>   390

1520

<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f06d1

<400>   3721

ggaggcatat tgcattgaaa aggggaaaaa agggaaaggg acatatatac ctggatcact   60

ctactttggg agatggataa aaatcattta caattcagta gactaaaaat ttaaatagaa   120

ataattatct aaactgaatc aagtgcagga atcaccaaac tcaataaaca agaacttcaa   180

attttgagaa caaaaaatgt cactcagacc tccataatct ggttctatat ggacaaactt   240

gctgtcaata actacactac actgtacaac attttcctga tcaagtaaaa gtgagcactt   300

ctcatataaa ccttcctttg gcgctagatt caataagcag gatctaggag cagacacttt   360

atactgccca atactgaaac tttcttgatc   390

<210>   3722
<211>   454
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f07a1

<400>   3722

aagatgaaga aggaagcaat tcttataaac tgcagtagag gacctgttat tgatgaagct   60

gcacttgtgg agcatttaaa acagaacccg atgtttcgag taggccttga cgtgtttgag   120

gaagagccct acatgaaacc cgggcttgca gagttgaaga atgccattgt ggtaccccac   180

attgcatctg cctccaagtg gactcgtgag ggaatggcta cactagcagc tctaaacgtg   240

ctggggaaga tcaaagggta cccagtttgg tttgatgcca atagggttga accattcctc   300

aatgagaatg ctcaaccacc agctgcatcc ccaagcattg gtaattgcaa aagcctgtgg   360

tttgccaact ccaagctata aacatacatg gttctatcct acaagggcct tcaattgcac   420

aaatgaccaa ttttggcctg ttgagttggg ctct   454

<210>   3723
<211>   246
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f07d1

<400> 3723

ttcgttcttt tttttttttt tttttttttt ttattttttt tttttttttt tttactggaa   60

attttattgt tcaatgtata tgcaacagaa gggtataaaa agacagagat acgattggac   120

cgggaaacag agagaaataa gggacaaaaa aaaacgcggc aaaacaccaa gaaaagcaaa   180

acaaagacac agaaacccat aaaccgcccg gcacaaaaac cgggccaaaa atagaataga   240

agcaaa   246

<210>   3724
<211>   475
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f08a1

<400>   3724

cggaaactcg atcgtcttgc ctagcctaat ataattggcc accatgaccg atgaacaacg   60

agaaccacaa gcttccccga gcaatggcgt ccacaagtta gaaagaaaac aaatagctga   120

aagagaaaga aaacaaatag ctggaaggga tagatcggtt tttagaggca ggcgtgcacg   180

acctgggttt tctgattcat tttcaagcac tgacttggaa gctttagaga ttgaagaggg   240

ctctcctagg agtcaagggt ctgaaacccc aagttcaagg gccagcactt ctgattcgga   300

gagtcaggga tcttttgctg gggcacctaa taccaataac caatggcggg gtttctttaa   360

actactcaag aaaggatcac aaatgccttt ccaacctttt cacccactta aaaatgttcc   420

aaaactgaca cgaagaaaaa gcaagaggat caggggaggac ctcattcctt ctctg   475

<210>   3725
<211>   482
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f08d1

<400>   3725

ttcgttttttt tttttgactt aattacacat ttgattatat tgaaggattt gtgatccaaa   60

tagaactgac atccttagca gcatttggag atcatccttt gatcttagac agggagattt   120

cacttgagaa aaatcccgta ctaaagtaac attctaacca actgaaaaca aaaatattga   180

1522

```
tcaatacaat tttgggagct acctagatta tcagtcatca ctgtcatcat cggacataga   240

aatccaaaat tttgatgacg gttcgttttc tagtttcgta acaggatttg tggcatcatg   300

gttgtagtcc ctaaagcaca aaacacccga atcttcagaa tagctagttg tagtaattct   360

acacccatct acaaccatgg catcacagcc agatccagca ccatcagtta aagagcaaag   420

caaggaattt gttagtacac cagtgtcaac ttcccataca ttcacataag cattgtcagg   480

gc                                                                   482


<210>      3726
<211>      299
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057f09a1

<400>      3726

ctttgttcac tcttcttctc ttgctgctag ggttttagcg cagcttcttc tagatttaag    60

gaagatgggt aaggaaaagg ttcacatcag tattgtggcc attggccatg tcgactctgg   120

gacatccact accactggtc acctgattta caagcttgga ggcattgacc agcgtgttat   180

tgcgaggttt gataacgaag ctgatgagat gaacaagagg tctttcaagt atgcctgggt   240

gctggacata cttaaagctg atcgtgcaag tggaatcacc atcgttagtg cttgtgga     299


<210>      3727
<211>      404
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057f09d1

<400>      3727

ggagggaatg tgcatgttac tagcatttct ctttatccat atacaataca ataaccctgc    60

tgctgatgaa tttgatgacc ataacacagt gacaaataag atcataagat gcaatgattt   120

ttgatataca ggacaataaa agaagcaatg cattaaagct gaaagtagag tgtatgttca   180

tcttcaaagg agtgtaaaag agggtaatat atattttaca gaattccga aagagcagaa   240

aaaaggaagt aaagacaaga atgacttgtg actcaaatcc tggaagggat cataggaata   300

gtgtcctgta agtatgcact ggcagcagca actccacttc caagctttac aggatagccc   360
```

acatctttca gtatcatctt cacaccagct agacatccca acag   404

<210>   3728
<211>   184
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f10a1

<400>   3728 .

gatgcatcat attgcattct ctatattgag cacggtgaat atgattgacc actgggcatc   60

tatagttact gcatgctgca tcatattggg gtgacggccg aaaactctgt gttaccaaag   120

gcgccgctgg cccgataatg atgaaatgca cgacctgctt caggacatgg tatcatacaa   180

tgag   184

<210>   3729
<211>   404
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f10d1

<400>   3729

ggagggattg tgcatgttac tagcatttct ctttatccat atacaataca ataaccctgc   60

tgctgatgaa tttgatgacc ataacacagt gacaaataag atcataagat gcaatgattt   120

ttgatataca ggacaataaa tgaagcaatg cattaaagct gaaagtagag tgtatgttca   180

tcttcaaagg agtgttaaag agggtaatat atattgtaca gaatttgcga aagagcctaa   240

tataggaagt taagacgaga atgacttgtg actccatcct gtaagggatc ataggaatag   300

tgtcctgtaa gtatgcactg gcagcagcaa ctgcactttc aagctaacag gatagcccac   360

atcttttaga atcatctcca caccagcttg acttcccaac agtt   404

<210>   3730
<211>   365
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057f11a1

<400>   3730

```
aagacttgga tccgatgatc ttgtgtttat tagttgaatg ccaaaaccac atggggggcat    60

cggaattgtc tgatgaaggg atctccgagc ttgagagtga aaaccttatg ccacagttgg   120

cgctagagtg tctggtagaa caactccaaa gttcaatatg gggattcatt gagttcttgc   180

agctcttcag attgatccag gttggggggc atggcaaagg gatccagcca gaggaaatgc   240

ctatatcgca tattctcaat aatatctgag ggctcgaaag gctctcttgg gaaaacccaa   300

gaggagaagc tgccgctacc tggtgagaat tctatccttc taactggacc ttttgcacaa   360

gaatc                                                               365
```

```
<210>      3731
<211>      273
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057f12a1

<400>      3731

atcccctgtt cctttctgt tgcttgttcc tctcttgaac gcaaacccat caccacgttt    60

gggtttgtgt accacattcc ataacataac cttgttgtcc tcaaattcca gtcgttggat   120

tcgtactaca aggcgaaaat ggtagggttt agaaaaacac cagcaccaac tgaatcagat   180

aagaagacaa cccttactgc acaataaaga actgcttcag aacctggact gacagcttca   240

aaatgtaacg gaaactattt ggagtacgat gac                                273
```

```
<210>      3732
<211>      495
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057g01a1

<400>      3732

ggaactctta cttggataaa tggggactca tacgaaggaa actggttaaa tggcatgatg    60

catgggtttg gagtttatac ttggagtgat ggaggatgct atgttgggac ttggacattt   120

ggtctaaaag atggcaaagg aaccttttac ccgagaggta gccgtcttcc ttgggtgcaa   180

gaaatttacc tcagtgcctt gagaaaaaga gggttgctgc agatttgag aaaacagaaa   240

caggtgagag atgtcaaggt accagagaac catatgtcaa gtcatgtttc atctgataag   300
```

1525

```
tttgcaaaag gaaacctgtt aaatctggaa gagtctaata gaagaaatgt ctctctcgaa     360

aggcgttgga gtcttgaggt gtctattgag aaggtgattg gggatgattc agcattaaga     420

tttgcagaat ctgtaccaga aagtagagat ggagaagttg atgcaatgat cccaattttg     480

gaacgagagt acatg                                                      495


<210>      3733
<211>      384
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057g01d1

<400>      3733

aacaaaggaa tttaataatc atttggaaaa acctgtcttg aaggtgtaca ttattacatg      60

aggagtgcca acagagcatg agctgaatat tcgattcaaa gcaactgcgt ctagatacct     120

gaatgcatat ctctagattc agtaccacgg ctagctatga taagctgcgc ctcgacaggt     180

aatatatgaa tatgattagc taagcctcgc tagagcctta taggtatcgt attatgggaa     240

caggtacaca actgtgcgat ttggacgtgt gcagctatga tgatcgagct gactgattgt     300

aaacactgtc tgggcgcatt cacatgttag tcaaccagtt agcacgcctc ctcaccctct     360

gcatgccagt tgctatcttc tagc                                            384


<210>      3734
<211>      480
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057g02a1

<400>      3734

gaagcattag caaaagcaag aagaactagt ctaagcagaa atggcctctt cagtgatggc      60

atctgtggcc ctcaaacctg cccctttcac tgttgagaag tcctcagtta gaggccttcc     120

ctccctctca aggaactcct cttcattcag agttgtggcc agtggtggca agaagatcaa     180

gactgacaag ccttatggaa ttaatggtgg catggctttg agggaaggag ttgatgcatc     240

tggcaggaaa ggaaagggaa agggcgttta ccagtttgta gacaaatacg gtgctaatgt     300

cgatggttac agtcctatct acgacaccaa ggactggtct ccaaccggtg atgtctacgc     360
```

```
tggcggtacg actggcttgg ctatctgggc tgtgactcta cttggtcttc ttgctggtgg   420

tgcacttctt gtctacaaca caagtgcttt ggcgcaataa actttgcaaa tcgatgtttt   480
```

```
<210>      3735
<211>      452
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220057g02d1

<400>      3735
```

```
aacaaaaaat acaatcttca ttctattagc ttaagcatcg gcatctacaa tcatacatac    60

tgctgctagt caatctcgca ttcagtatca gatatcttgg tatatatgta gtaccatttt   120

caatacaact gattatgcaa attactcggg gacaaattgt atgggaataa aaatggaaaa   180

gcctaccaat ttggagagat gcctattgcc tatatattaa gatataatat gtcacaatgt   240

catgcagata gatccgatta tgcaaaagaa atattcgcac gtgattctac ccaacagttg   300

catcactatc ttacaagttc ccaggcctct ttagacatgt cataaattac aacacagcca   360

ttctcaaaca tgatcgaacg tgttcgggca tattcatcac atcgctcaat agttccaaac   420

ctgtcatttc caagtacgtg tatcctaata ac                                 452
```

```
<210>      3736
<211>      479
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220057g03a1

<400>      3736
```

```
aagattgcct caataaagat gttaccagtc aacatatgat gaaaatgaat gttaagcatg    60

aagaagccta tgctcaactt ccatctggtg atgacctctt cgatgtttta ggtatggatt   120

tgaaaaggag actactcaat gggagctgga ataagttgct tgccacagat tcagatgaca   180

acacagaaca tctagataaa aaggcaacat gcatgaattt gcaaggtgta ggtcctgata   240

atagttattc agttaatgaa gcaatatcag aaagtggcat cttctctgga acaggcacag   300

accacctttt agatgctgtg gtttcaaaag ctcaatcttc tgcaaaacag aattatgatg   360

aaatgtcatg caggacaaca ttgacaagga ttagtacagc ctccattcct tctcctgtct   420
```

1527

gcaagcaagt tatgcctgat catgttgtcc caaggggatt gtttgatttt cctaagacc   479

<210>   3737
<211>   152
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g03d1

<400>   3737

agcattagaa tgcaaacaca gtacataccc atggacactg acacactcag atatgactgc   60

acatgtaaca aaaaatcaat atatatacta cgatagcaat caatttatcg gggcctgtaa   120

acgtgaaggg gctagaaagg gcgatcatca ta   152

<210>   3738
<211>   144
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g04a1

<400>   3738

ctatacgtca agtgcaccag cttcgcatga aagtgcaggt gatgatgatg gagctattag   60

tgtgaacatt gagagagatg ctagtttgag tggacaaagt gacgagatgt cttctggggg   120

aggcttgact gcagatgcgg caga   144

<210>   3739
<211>   200
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g04d1

<400>   3739

agggaaaaaa gcgcaaaact agaacatgtg agattgctaa agccaaatag accttgatac   60

tactagcctt atacgacgta attacataga ctgtgcagtt ccaagagcta gatttagctg   120

aaccaggact tcattacgta ggacccctgc atatcctact acctgacctt taacattgac   180

ctgtaagtta taatgaaaag   200

<210> 3740
<211> 323
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057g05a1

<400> 3740

tattcattca ccgattaaga tggagaagag atcagcatgc ctgacgctga aacttgcgtc   60

catcacacca tggggtgcag atctgcagga gagccttgac gagcgaatgg cgctaccaga   120

ggatgtggag acgcacatag acaagcatac aggcgagatt ctgggactcc attctgtgag   180

taatgctttg agcagcacag cgtgtgagga tgaacatgac ttgtgcctta aaagacttaa   240

tgaatatcaa acgcagttcc gaacacttga tatggaaacg actgatcgcg ttcagaaggt   300

cttgcattgc gtgaatgagg tgc   323

<210> 3741
<211> 224
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057g05d1

<400> 3741

gatagaagag tgcatcggat aaacttgcac gattatcctc tgagatgcct acccgagctt   60

gctatggaac atacacagca tcccaactgg ctactcgatc ggatgcattc ccaaaaggac   120

aagcacttct gaaccagcga acatatacgc cagatatgcc tgcaaatatg acagctgggc   180

cacactatct agggcggcct ctatctgaac ctcatgggat gcaa   224

<210> 3742
<211> 327
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057g06a1

<400> 3742

ctttaccata ccattacaat aattatcaaa cctaaccagt aaaaatggtg accgtggagg   60

aaatccgcaa cgctcagcgt tcccatggac ccgccaccat cttggccttc ggcaccgcca   120

cgccgtccaa ctgcgtctcc caagccgatt accctgacta ctacttgcgc attatcaaca   180

gcgaacacat gactgatctc aaagaaaagt tcacgcgcat gtgtgaaaag cccatgataa 240

agaagcgatc catgcacctg acggaggagt ttctgaaaga gaacccgaac atgtgcgagt 300

acatggcgcc atcgctggac gtgagac 327

<210>   3743
<211>   473
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g06d1

<400>   3743

aaggtaaatt tgtcacattt attcattatc atatatgcat cacctagtat cagctggttt 60

attcttaatt aagagaaaac taaaatacaa tatcttacat gctattttg ccggacttga 120

attagaataa tttcacctcg ataactttca aaatccttta atgcaaatta ccgaaataaa 180

actctagttc tagttcaaac aacacctagc tataataatt aggggttgat accatagagc 240

tttcgaatcc cgtctatatc atcttgcgct agattcacct tcctagttcg aggtggtata 300

gaaggataca tgatggctct taggtccgac gagtggccta atccgagcaa gtgcccgatc 360

tcgtgcactg ccacagattc aaggtcaaac gcacttgtca ccggcgattt ggtgacatcg 420

ccagacgcca cccaatattc gtcggcgtca aagtggcacc tcccatcagt ggg 473

<210>   3744
<211>   188
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g07a1

<400>   3744

cttcctccaa attcagttgc tagattacca tcgctatacg acgtaggact tctaggcaag 60

attagcacgg agccactagt aagccatggt gggacctatg agcgtgatat ccagatgtca 120

gagcattgtt acattacata actgaccatt ttcgactact tctgaagaag aagggatgcc 180

ggcagata 188

<210>   3745
<211>   545

1530

<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g07d1

<400>   3745

tctttttttt ttttttttttt ttttttttttt ttttttttttt tttttacatt agtaaacaaa   60

tttattgcat agaaagatac ctgcgtgtat ggaaaaaaat tcaatttttg ttaagttgaa   120

gggaaatatc caaatacatg tcttattctt ttaaataatc catatttgta gcaatgaaat   180

aaattcctcc ccaaaataaa aaatgattgg gattaccaat atctatgatc catattcact   240

attaaggacc agaaatgcct tgcttacgta tcattaaaaa gggcattaac ataaataccg   300

cagtaagaag aggtaattca aaagtttgca aactataaaa acgagttaag gtagattgtc   360

ccacactgga acttccgcgt ataacttta ccaaagacga tcctattaca ggaatagcgt   420

cgggtacgcc tgttacaatt ttgactgccc aataaccaat ttgatcccaa ggtaaggaat   480

aaccggttac accaaaagat gcagtcaata cagccaaaac ttcacccgta acccaagtta   540

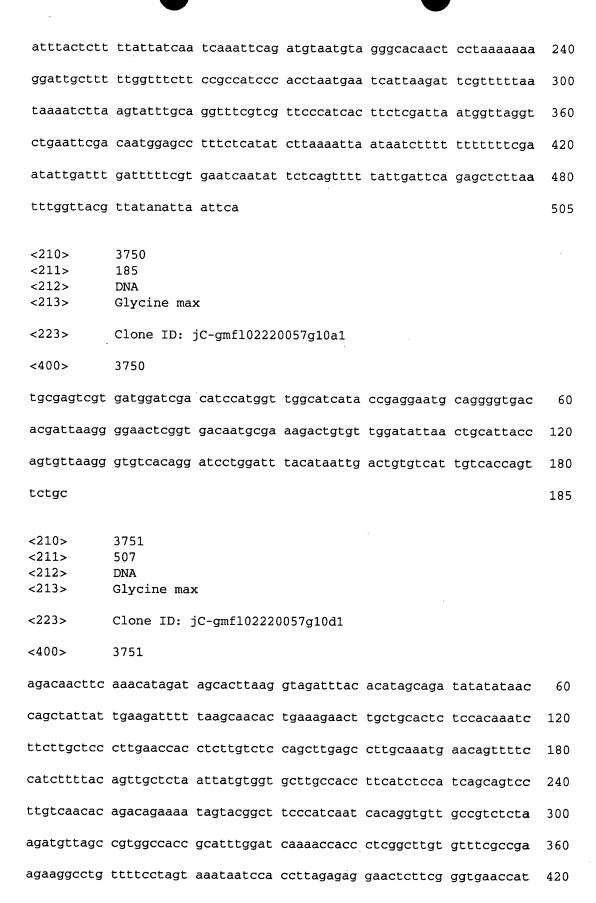atttc   545

<210>   3746
<211>   234
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g08a1

<400>   3746

gcaagcttgg cacttgccga gaatggatac ccacctgtac actcttgagt acatgaactg   60

atggtcatcc ctacaagctg tgtgatcaga tatctgatgc agtgcttgat gcctgactgg   120

agcaaagacc ctgaaagcaa ggttgcctgt gagacatgca ccaagaccaa cttggtcatg   180

gtatttggag agatcaccac aaaaggcaat atagactatg agaagattga gcgc   234

<210>   3747
<211>   517
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g08d1

<400>   3747

```
tgactgctcg gtggccgccc tttttttttt tttttcatc caaaagcatt tttgcagatt    60

cttttccttt ccttcaacag aaaaatagag gatgtattta ttacaagtag ccatatatta   120

acaaattcct taagtaacat agtatctctt catgaatggg tccatgctga aataatcatg   180

gaagaacatc tgaagaggta tagaagagtc tgtcaaatct tcaggaacaa gtttcaatga   240

gcttttagc cttgaaagga cccaacattg gatggaaata tacaaatgta atcaacatgt     300

gtagacatct caaaggaaag gtatcagggc agaactaaga cccttgaaac aagaaatctg    360

ctgaccacac agttcttcat ttcctttttc ctgaaccaag tgacaggagt tcaaagctcc    420

tgagtgtatc atcacgacca cctcttgttg ctgaagcccg tgataaagat gttttggatt   480

caaaaccagg ttgaagtctc tgagttggtg ataagtc                             517


<210>      3748
<211>      186
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057g09a1

<400>      3748

attgcatgca atttattact atccatagag cacgatgaag gcaatggacc gagtgtcacc    60

ctgtgatacg gcatacggga acccttcatc tgaatgccat attaccctct gatacttttg    120

agctccacat catcgagcag aacaattcac actgatcttg aggaaagcgt catctcattt    180

tgatca                                                              186


<210>      3749
<211>      505
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220057g09d1

<400>      3749

acatatataa ctaaagaatc ttgttttgtt ctattatttg ttattttata atattctaat    60

gaatctttat tttcctttttt attattagtt attagaatat tttttattat tagaaagaat   120

aaatagaatt ggcaaaaatg aaaaaaaaat tcaatgaaat caaaattatc gcgggcgaat   180
```

atttactctt ttattatcaa tcaaattcag atgtaatgta gggcacaact cctaaaaaaa   240

ggattgcttt ttggtttctt ccgccatccc acctaatgaa tcattaagat tcgtttttaa   300

taaaatctta agtatttgca ggtttcgtcg ttcccatcac ttctcgatta atggttaggt   360

ctgaattcga caatggagcc tttctcatat cttaaaatta ataatctttt ttttttttcga   420

atattgattt gatttttcgt gaatcaatat tctcagtttt tattgattca gagctcttaa   480

tttggttacg ttatanatta attca   505

<210>   3750
<211>   185
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g10a1

<400>   3750

tgcgagtcgt gatggatcga catccatggt tggcatcata ccgaggaatg caggggtgac   60

acgattaagg ggaactcggt gacaatgcga aagactgtgt tggatattaa ctgcattacc   120

agtgttaagg gtgtcacagg atcctggatt tacataattg actgtgtcat tgtcaccagt   180

tctgc   185

<210>   3751
<211>   507
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g10d1

<400>   3751

agacaacttc aaacatagat agcacttaag gtagatttac acatagcaga tatatataac   60

cagctattat tgaagatttt taagcaacac tgaaagaact tgctgcactc tccacaaatc   120

ttcttgctcc cttgaaccac ctcttgtctc cagcttgagc cttgcaaatg aacagttttc   180

catcttttac agttgctcta attatgtggt gcttgccacc ttcatctcca tcagcagtcc   240

ttgtcaacac agacagaaaa tagtacggct tcccatcaat cacaggtgtt gccgtctcta   300

agatgttagc cgtggccacc gcatttggat caaaaccacc ctcggcttgt gtttcgccga   360

agaaggcctg ttttcctagt aaataatcca ccttagagag gaactcttcg ggtgaaccat   420

agtcagtgat agacttctta tcagtcggag tgatggtgac aaccacgttg gtggttggaa   480

tcaaagtatc ctcatatcta acaacct   507

<210>   3752
<211>   357
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g11a1

<400>   3752

ggttgattta cattggaaat caaagatgcc aagttccgac atgccttcca aaactctaaa   60

actctctctc tccgacaaca agtccttacc ctctttgcaa ctacccttcc gcaccacaga   120

tatctctcac gccgcacctt ctgtttgcgc cacttacgac tactatctcc gtcttcctca   180

actcagaaag ctttggaact cctcagattt tcctaattgg aacaacgaac caatcttaaa   240

acctatcttg caagctctcg aaatcacctt ccgctttctc tccattggtc tcttcgatcc   300

aagaccttac tccaaccaca gagaatggac tcgcaggata gagtctctta tcacaca   357

<210>   3753
<211>   385
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g11d1

<400>   3753

atctaacaca tattcataaa caaaataagc tacaatgagg atgcagcaag ttacaaagaa   60

aattgaacat cacgagacaa aatcaagagg agaggaaagc aaaacagacc tcaaggatcc   120

gcgtcaaata tcctacattc tatacatttt ttgtgatttt taggtacaag aatcctccac   180

cttaccactt cacgtggtgg catcatcttc atttcaaatc actagccttt gtcattcttc   240

cacttattat ctccattgat tgtttgcttc ttcatttcgt agtcttccat ttctatggaa   300

gcataattag gctatgatat catctcagtt tctattttca tcacagcacc cacaaataaa   360

tgatgggggc aacaagttac tcagc   385

<210>   3754
<211>   385
<212>   DNA

1534

<213>   Glycine max·

<223>   Clone ID: jC-gmfl02220057g12a1

<400>   3754

gagataacta gaaacagtgt gatgaaaatg aaggtccttg ttttcttcgt tgctacaatt   60

ttggtagcat ggcaatgcca tgcgtacgat atgttccctc tccgaatgaa cactggctat   120

ggtgcccgta ctccggaggt gaaatgcgca agttggaggc ttgctgtgga agcacacaac   180

atctttggct atgagaccat tcctgaagag tgcgttgcag caacaaagga atacatccat   240

ggcgaacaat atagatcaga ctcccaaaca gttaacccac caagcttact tttatgccag   300

agacctcgaa gtccatccca aggacacatc tgtgctcagt atagatggca ccgtactctc   360

taatattcca tactacaaaa accat   385

<210>   3755
<211>   242
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057g12d1

<400>   3755

gcaattgaaa ttcaaccttc tatgcaaata ttatcacaac cttcaaaaga ggatcaaacg   60

agtcaaaatt aagaagttga attcaacaag cattgtgtaa agcacctatc.acaaatcagc   120

cagttcaaag tcaaatttga agccagatgc tcttttgaat gataagctcc aatctttaag   180

gggtctcgcg aagatcacca tgggtctcta ggacgaccat ttgcgcttac aggaagaatg   240

ac   242

<210>   3756
<211>   499
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057h01a1

<400>   3756

aaacaaaaga aatcacaatc tgtggcttca ttatccttgg gtgcaccatc tcctgcggtt   60

catccatcta tgcaaccatc atcatccgca ttgaagcatg gacctccatc aggaactaag   120

```
accaaaaagc aaaaatcatt cccttctaca ggacttacaa gccaaagcca ggtcactaat   180

caggggggtt cttcaggtgc ctttgcaaca aaaggacctg ctgaagcagc ttcttatgat   240

ccctggattg gaaggaaagt ttggacaagg tggcctgaag acaaccactt ctatgaagct   300

gttataacgg attataatgc tgctgaggga ctacatgctt tggtttatga tatgaattca   360

gcaaatgaaa catgggagtg ggttaatctt aaagagatat ctccagaaga tattctttgg   420

gagggtgaag atcctggaat atcccataaa ggatgccagc ccggtccagg tagaggattg   480

aagaagtcta tgcctcacg                                                 499
```

```
<210>     3757
<211>     484
<212>     DNA
<213>     Glycine max

<223>     Clone ID: jC-gmfl02220057h01d1

<400>     3757
```

```
atccagaaac atttattatt tattgctttc taccatctct gcatctctaa ttgctgtaaa    60

aacactggct ctttggaaaa ctcagaggat gcaattccta ctgattgcaa agaaattgac   120

gcagtaattt tgataataaa aaccaatctg ttattgtaca cccatattat tgccacattt   180

aagactagcc cgtctttata tccttaatgc tctcttattg ccaaaatcac aatatgtaat   240

caagttcaag ccgcaacttt cttggatgtg actgaattga caatggtagc aaactcagga   300

ccctttaatg aagcacctcc aacgagaaat ccatcaatat cttcttgctt tgctagctca   360

gcactgttcc ctccatttac agaccctcca taaataattc gcgttttaga tgcaacttca   420

tcagggacat tctttttag ccaatctcga acagctacat gtacttcctg agcttgctgg   480

ggag                                                                 484
```

```
<210>     3758
<211>     483
<212>     DNA
<213>     Glycine max

<223>     Clone ID: jC-gmfl02220057h02a1

<400>     3758
```

```
gagagagaga gaggcacttg gaatccaaaa atgagagaaa tcatcagcat tcacataggt    60
```
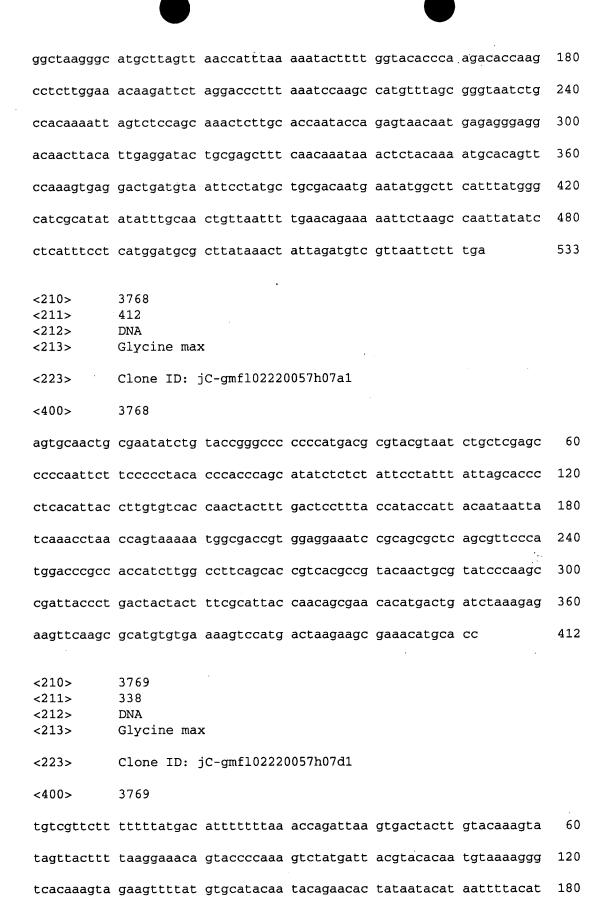
```
caggccggga tccaggttgg caactcctgc tgggaactct actgcctgga acatggcatc    120

cagcccgatg gcatgatgcc caagtgactc ctccttcggt gtagcccacg acgccttcaa    180

caccttcttc agcgaaaccg gatccggcaa gcacgtccct cgcgccgtct tcgtcgatct    240

cgagcccacc gtcatcgacg aagtccgttg tggcacttac cgtcaactct ccacccccga    300

acaactcatc tccggcaagg aagatgccgc caacaacttt gccagaggcc actacaccgt    360

tggcaaagag atcgtagatc tgtgcttgga tcgcgtccga aagctcgcag acaactgcac    420

tggtctccag ggcttcctcg tcttcaacgc tgtcggcggt ggcaccggtt ccggtctcgg    480

atc                                                                  483


    <210>      3759
    <211>      323
    <212>      DNA
    <213>      Glycine max

    <223>      Clone ID: jC-gmfl02220057h02d1

    <400>      3759

attcttatca tgctttactt tgacgtttat ggaaaacaaa gcgaactcga atccagcaag     60

cgaacaaacg agtgattaca ccggggggcat atcctgcggg agaagacgat tttcagaaca    120

acgggcaata tcctgtggga cacactaagc tggcatacga ggattaccag caaggtcaaa    180

cacttgagaa attcccaaga gattatcaaa aactgaaaac tgtttgggat cggcaataca    240

gaaactcatc agccgtggag tgagatttgg ccactagaac tcccctgctg ggaccattaa    300

tgcgaccaca taccccgatt ggg                                             323


    <210>      3760
    <211>      482
    <212>      DNA
    <213>      Glycine max

    <223>      Clone ID: jC-gmfl02220057h03a1

    <400>      3760

tagatgatgt gatatatgta attgattgtg gaaagcataa agagaatcgc tacaatcctc     60

agaagaaatt gtctagcatg gttgaagatt ggatttctcg agcaaatgca acgcaacgtc    120

gtggtagagc tggacgttgt aaaacctgga atttgttttt ccttgtacac tcgtcataga    180
```

```
tttgaaaagc tcatgcgccc atatcaggtt ccggagatgc ttcggatgcc attagttgaa    240

ttgtgtttgc agattaagtt actgtctctt ggatatatca agccattttt gtcagaggca    300

ttagaacctc ccaaggttga agcaatggat tcggcaatat ctttactgta tgaggttggt    360

gctcttgaag gggatgagga gttgacacca cttgggcatc atctggcaaa acttcctgtg    420

gatgtgttaa ttgggaagat gatgctgtat ggtgcaatgt ttggttgttt gtctccaatt    480

ct                                                                   482
```

```
<210>       3761
<211>       216
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220057h03d1

<400>       3761

attcatagat tggaggcata ttgcattgaa aaggggaaaa aaaggaaagg gccctaaata     60

ccagacatac ttcactttgg gagatggata aaaaacatct acaattaaat atacttacaa    120

atgaaataca aattattgtc ccaactgaat caagtgcacg aattaccaaa atggatacac    180

aagaacttta aatttagaga accaaaaacg tgacta                             216
```

```
<210>       3762
<211>       404
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220057h04a1

<400>       3762

gaacatcgac gctgagataa agggtgaata attagcagct ccttctagtt ccggtgtcgg     60

tgtgggtgtt tgaatctggt gaaggatgtc aattgttcca atcaaccagg gtgatgccaa    120

cggctccaac cccttcgctt cgtggggtca attcgtggat tttcctctcc ctccttccat    180

ctacggcttc ttacccggct tggaattccg attcggattc ggatcatccg tgaacacacg    240

tgcggactgg agggagactc ccagagcgca cgtgtggaag ctggcgctta ccggcttctc    300

caacgaggac gtgctggttg agctccaaga cgagagggtg ctccaagtca acgtggaaag    360

cggctacttc gtcacgaggt tcaatgttcc cgacatcgga tacc                   404
```

1538

```
<210>      3763
<211>      326
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057h04d1

<400>      3763

tttgtttttt ttttttttt tttttttttt ataaggggct aataattata tatgatggaa    60

tagattaaat aaaacaaact ttgagcaaaa gacatccaat ataacctgac caaaaagttg   120

catctaccga acggatcact gccttaaccc gagcttggaa cgttgcaaca taggtcatac   180

tatcccttac tatattgcta gatagtggat cctgcaagca ttccaagcga atactttagg   240

gaactaagtt aataaacttt gttacaatca ccaagaagca ttgccatggc acctctagct   300

catgcttcca tatgctcctg ctctat                                        326


<210>      3764
<211>      363
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057h05a1

<400>      3764

tcgaggcacc actaccacct ttccgacttc agccgttgca accaccagca aatggctggg    60

cttcgtggcg gccgtgtgga ttcaatgcat cttcggcaac aactacactt tctcaaacta   120

ctccgacgcc ctcaaatccc tcatgcacct cactcagcta caactcaaca acctgtccgt   180

cggtaaagac gttggcaaag cctttgggct tctcgcgggc ctggccttct accgcttacc   240

cacttgggcc attctcctca taggctccgt cgaaggccta attggctacg gaacccaatg   300

gctcgtagct cgccaaagaa ttcaacccct cccctactgg catatgtgtg cgtttctgtg   360

cat                                                                 363


<210>      3765
<211>      278
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057h05d1
```

1539

<400> 3765

```
tttcgttttt ttttttttgat ttttttttttt tttataaggg aacttagcta catcaaggga   60

ttaagatata tgcataacct agttgaacct ggatgctatg taattaagag aaacctgaac  120

tgcgctatgt cacatgctat atgtgacgtc ccagaattac cactaattta cctcgataac  180

tttcaaacta cgcaaatgtt aatgacggaa cggaaactct tatgataggc ccaacaacac  240

actggctggt ccactgcgga ggcgatacca tagagctt                          278
```


<210>   3766
<211>   481
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057h06a1

<400>   3766

```
cgcaagcaaa aagaaagaat cccaggcgag gagaaagatg gaggggaagg agcaggatgt   60

gtcgttggga gcgaacaagt tccccgagag acagccgatt gggacggcgg cgcagagcca  120

agacgacggc aaggactacc aggagccggc gccggcgccg ctggttgacc cgacggagtt  180

tacgtcatgg tcgttttaca gagcagggat agcagagttt gcggccactt ttctgtttct  240

ctacatcacc gtcttaaccg ttatgggagt cgccggggct aagtctaagt gtagtaccgt  300

tgggattcaa ggaatcgctt gggccttcgg tggcatgatc ttcgccctcg tttactgcac  360

cgctggcatc tcagggggac acataaaccc ggcggtgaca tttgggctgt ttttggcgag  420

gaagttgtcg ttgcccaggg cgattttcta catcgtgatg caatgcttgg gtgctatttg  480

t                                                                  481
```


<210>   3767
<211>   533
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057h06d1

<400>   3767

```
gattccacga gctcactagc tcagtggtcg cccttttttt tttttttttt tttttataat   60

aaagttttta taataatatc aattgaccaa attagcagaa ataatccacc gcatacaggt  120
```

```
ggctaagggc atgcttagtt aaccatttaa aaatactttt ggtacaccca agacaccaag    180

cctcttggaa acaagattct aggacccttt aaatccaagc catgtttagc gggtaatctg    240

ccacaaaatt agtctccagc aaactcttgc accaatacca gagtaacaat gagagggagg    300

acaacttaca ttgaggatac tgcgagcttt caacaaataa actctacaaa atgcacagtt    360

ccaaagtgag gactgatgta attcctatgc tgcgacaatg aatatggctt catttatggg    420

catcgcatat atatttgcaa ctgttaattt tgaacagaaa aattctaagc caattatatc    480

ctcatttcct catggatgcg cttataaact attagatgtc gttaattctt tga          533


<210>    3768
<211>    412
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220057h07a1

<400>    3768

agtgcaactg cgaatatctg taccgggccc ccccatgacg cgtacgtaat ctgctcgagc     60

ccccaattct tcccctaca cccacccagc atatctctct attcctatt attagcaccc    120

ctcacattac cttgtgtcac caactacttt gactcctta ccataccatt acaataatta    180

tcaaacctaa ccagtaaaaa tggcgaccgt ggaggaaatc cgcagcgctc agcgttccca    240

tggacccgcc accatcttgg ccttcagcac cgtcacgccg tacaactgcg tatcccaagc    300

cgattaccct gactactact ttcgcattac caacagcgaa cacatgactg atctaaagag    360

aagttcaagc gcatgtgtga aaagtccatg actaagaagc gaaacatgca cc            412


<210>    3769
<211>    338
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220057h07d1

<400>    3769

tgtcgttctt tttttatgac attttttaa accagattaa gtgactactt gtacaaagta     60

tagttacttt taaggaaaca gtaccccaaa gtctatgatt acgtacacaa tgtaaaaggg    120

tcacaaagta gaagttttat gtgcatacaa tacagaacac tataatacat aattttacat    180
```

1541

cttcaaagcc acaaacctgg gctgacggtt cactaaaact ttcacacagc ctgcttgtga 240

cttattccta agccctatta ccacatggat gttcaacaat tctcagtgca taatcactgc 300

agactcttgc acaagaggat gagtaacatg cacaaaat 338

<210>   3770
<211>   379
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057h08a1

<400>   3770

tggaggcgaa atccgttccc ctatctgctt ttggagttgt tgctaaagag tgatggactc 60

accgtccagc aatcaccacg cggtcgacgg agacgccaac gacgtcgata gatcctttc 120

ccaccgcgac gacgatgaag acggcaagcc ccaaccgatc accgggggact gcgcctgtcc 180

tggaaagata ttcataggggg gcttagcgag agaaacgacg attgcgcaat tcatgaagca 240

ctttggtaca tacggctaga taacggattg cgtcgtcatg aaagaccgga agaccggtca 300

gccgcgtggc ttcggcttca taacttacgc tgatccctgc gaggctgata cagtgattga 360

ggacactcac attatcaat 379

<210>   3771
<211>   389
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220057h08d1

<400>   3771

tagctcagtg gtcgcccttt ttttttttt ttatgacatt tttctaaacc agataaagtt 60

actacttgct caaagaaaag aaactatgat ggatacagta cccgaaagta tatgattacg 120

tacacattgt ataagggtca caaattgaag ttataggtgc atactgtaca aaacacggta 180

atacatatta tgacatcttc aaagccacga acctgggctg ggggctcact aaaactttca 240

cacaacctgc ttgtgactta ttcctaagcc ctattaccac aaggatgttc aacaattctc 300

agacgcttca tcactaaagg cctcttgcac aagacgatga gcatcatgca cagaatgctc 360

aggttcactc atcacttctt tccaacact 389

1542

<210> 3772
<211> 525
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057h09a1

<400> 3772

```
aattcacacc caaagagaaa agaaaaaaaa aacaacagtg gtacgtgatg ccaccgaagt      60

tcgatccctc gcaggtggtg gacgtgttcg tccgagtcac cggcggcgag gtcggcgcgg     120

cgagttctct cgccccgaag atcggtccct tgggactctc cccaaagaag atcggagagg     180

atattgcgaa ggaaaccgcg aaggactgga agggcctccg cgtgacggtg aagctaaccg     240

tgcagaaccg gcaggcgaaa gtgacggtgg tgccatccgc cgtcgcgctg gtcatcaagg     300

cgctgaagga acccgaaagg acaggaaga  agacgaagaa catcaagcac aatgggaaca     360

tctccctcga cgacgtggtt gagatcgcta gggtgatgag cccgcgctcc atggcgaagg     420

atcttagtgg gaccatcaag gagattctcg ggacttgtgt ttcggttggg tgcaccgtgg     480

atgggaaggg accccaggat ctgcagcagg aaatttctga tggag                     525
```

<210> 3773
<211> 338
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220057h10a1

<400> 3773

```
agtcctgaaa cttgggtgcg attccttcac tcacaacaac aacacatcac tatggctctt      60

ctgagtcgag cctcttcacg cttccctcag ctggtttccc ctcaaagggt agtttcactc     120

cacacaacgc tcccatctct gaacgcatac ccatccacag ccacgcctac accatatgcc     180

ccgccaccgc ctgcgtccgc ttactctccc gccggcgttt acaaggcggc ggagttcgag     240

atctcgcagg cggacgatct gattaactgg gcccttcgcg gcttcatctg gcccatgacc     300

ttcggcctcg cctgctgcgc cgtcgaaatg atgcacac                             338
```

<210> 3774
<211> 142
<212> DNA
```

<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057h10d1

<400>      3774

gacaaattac aaagaatatc cactttaaaa ctaaaagtgg gcccgaagac ccgaaaaagc    60

ggctgaaaat aagacttaca gaaacggggc aaaagcttgg aacggacaca atctccactg   120

aacacgagtg catctgagca ag                                           142


<210>      3775
<211>      238
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057h11a1

<400>      3775

gtttagttat ctactctttt ctgcatgttt gttctctcaa cgactcctcc gcgaaagagt    60

attattcaat attctgggtg ggtcgaatcc cggggttgaa gcgttgcaga catcacggct   120

gttctcagag tgtctcgctc cctcattcat gtccgatctg cacgactgac gacggtgagt   180

tgcgtgactg accgtaaccc ttggccgtac ggcgggcgtg gtgctttgcc ttctgaat     238


<210>      3776
<211>      525
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220057h12a1

<400>      3776

cgcccactct gccctagctt caatccctct agcttatttc ttagactgtg ggggcaccaa    60

agaggtaacg gtagacaatc tcacatacat tcctgatgaa agttacatca aggtgggcaa   120

aaccaccacc atcaacaagc cagacttgtt gccaatactc tcaacattgc gatactttcc   180

cgacacgtcg gctaaaaaat attgttattc attgcccgtc attaaaggca gcaaatacct   240

tgtgaagaca atgtactact atggaggttt tgatggaagg aataagcagc ctccggtgtt   300

tgatcaaatc attgaaggga caagatggag tgttgtgaac accacagacg attatgccaa   360

agtcttagtt cttactttga tattgtggtg gtgccatcgg agaagacttt gagtgtgtgc   420

ttggcaagga atgcacacac gggtggcgca agccccttct tttcggcctg gaggtgaaga   480

ggttggatgc ttctttttat aatcctaccg actttaacaa atatg   525


&lt;210&gt;      3777
&lt;211&gt;      427
&lt;212&gt;      DNA
&lt;213&gt;      Glycine max

&lt;223&gt;      Clone ID: jC-gmfl02220058a01a1

&lt;400&gt;      3777

tgttaaccgg ccaagattct ccgtaactac tacgagctat gacgtctcat gcagcctact   60

ataagctggg cgtcctgctc gagttgagag aaagatgggc agacaggaac ctgaaactat   120

gaacatttgc atcttgaaat tcttgattga cggtcacatg atgcctaccg aggccatgga   180

ccccaaaata cccacaacgg tactgaaggt gactgttatt actacagtac tttaacatga   240

cagtgatcta cagcgccatt ggagcatata catctaacgg acacgacctt cacgttcaag   300

ccctagggaa tacttttact taggctggga cacatgatgg ctgtgattat tccgacactg   360

cacattttct gaaattgttg aatatccaag agcctggcta ctgtataact ccacattctt   420

gtgaacc   427


&lt;210&gt;      3778
&lt;211&gt;      465
&lt;212&gt;      DNA
&lt;213&gt;      Glycine max

&lt;223&gt;      Clone ID: jC-gmfl02220058a01d1

&lt;400&gt;      3778

cattggttca agaacatcct aaagaaacac tagtaatatg tgtttatgga aattctggtg   60

gtttaggcac cagtttatgt gactatgtgt ctatcttatg tttaaattaa aaacccatac   120

cggtttagga tcatacttca cacataatat cagtttgact ttgtcaactt aaatagatat   180

actacaggga accccattc cagtcacacc tggctttgag aaaggtttca aaagctcgta   240

cggtacaatg ccagctccat ttctgttctt caactttgtg tttccattcc tctcatcaat   300

cagtgtttct agtttcttca gtctctctct aaatctttca aaggaagcct ttatgacagg   360

atcttcaccc catgatggtt ccatcttttc tcctatgtat tcctcatctg gtgaatgagt   420

tgagagtatg gccaagacag ccatgactct agttgcttga aattg                         465

tggtcgtgcg gatactgctt cagccggctt agcttaagct tactgatcag cttgacacga    60

tgcacatcta taaccagatg cttactcgag caatggcgta cacaagttat accgatgaca   120

aatagctgcc agagacagac tacagatcgc tggaagggat agatcggctt gtagaggcac   180

gcgtgcacga cctgagttgt ctgattcatt aggaagcact gacttggaag ctttagagat   240

tgaagagggc tctgctatga gtcacgggtc tgaaacccca tgttcaaggg ccagcacttc   300

tgattccgag agtcatggat cttttgctgg tgcacctaat accaataagc aatggcggcg   360

tttctttaaa ctgctcagga caggatcaca aaagcctttc caagcgtttc acccgcttaa   420

aaatg                                                                      425

ggagatcatt ctttgatctt agacagggag atttcacttg agaaaaattc ctgaaaaaaa    60

gaaacattct aaccaactga aaacaaaaac accgagcaga caatggaggg agctacctac   120

attatcagac atgacggtca tcaccggaca tagaaagcca aaaaaaagaa acagggcggt   180

ggaaaaaatc ggaacaggat tagtggcatc acggccgcag tccctaaagc acacaacagg   240

ggaatcttca gaagggctag ttgaagtaag gctacacgca cctacaacca tggcatcaca   300

gccagaacca gcaccatcag ctaaagagca gagcaagga                               339

<213>        Glycine max

<223>        Clone ID: jC-gmf102220058a03a1

<400>        3781

aatgcaaaga gatggcctat ttttggcctt tgaagcttgg aacttctgca atgaagttgg    60

tcaagaagct ccttacatgg gtagtccaag agctgctgat cgttttgatc tttcaggttc   120

tctgactcac aaggtcacag aagctgataa cagacttggg gtgggggact catttactgg   180

ttctatccag aaaatatcaa caccacagac ctttatgcaa ttgaaaagga atagtattgg   240

ggttctatat agtgaagttg ctgacacccc atgcccctgg ccgtttggga tggtgatgct   300

gaaccatggc cactattaca c                                             321


<210>        3782
<211>        286
<212>        DNA
<213>        Glycine max

<223>        Clone ID: jC-gmf102220058a04a1

<400>        3782

gtgacaacca gcttgttcca tattatgctg tctttcttgg agcccttttcg ccttgggcag    60

ccgatgcaga agagaaactg agagttgccg ctaccgaaac caacgaagag ctacgtgccc   120

ttaagggaga tcccccccgat gcgaatgatg tccgagcagt cctgtccatt ggcaggcggc   180

aactatctcg tgagttggag gctactccaa tcgaagcttt gcactggata tcccccccttc   240

ctaaacagtg gtcgcactgt gggaaggcaa caactgaatg acatat                   286


<210>        3783
<211>        279
<212>        DNA
<213>        Glycine max

<223>        Clone ID: jC-gmf102220058a05a1

<400>        3783

taggaggggg gcggcgactg tgtcgcgcgc tttagaggat gaaagattat aaggggggatc    60

tattctaccc ggtaacggcg atggactctt cctcctacga atactatcgc agtgcttcct   120

ataccgacgc cgatattgtg ttgactgtga atgacagtca tatcgccgac aggatccttc   180


1547

gacccgagat catggggggac ctcggcacgg ccacacccga ttactacggt tgccccacta    240

tcgacgactg ctactaccac cgcatgagga ggcgcgagg                            279


<210>      3784
<211>      293
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220058a06a1

<400>      3784

gccaattctt actcctccac ccacccagca tatatggata tttctataaa ttagcacccc     60

tcacattacc ttgtgtcaac aactactttg actcctttac cataccatta ctaattatac    120

atcaaacnct aaccaacaaa aagatggtga ccggaggagg ataatacgga tacggtcagc    180

gataccatgg acccaccaac atcttggcct taggaaccgc cacgccattg aactgtgttt    240

agcaagccga ataccgtgac tactactatc ggattaccaa aaacgaacac atg          293


<210>      3785
<211>      406
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058a07a1

<400>      3785

ctcattaatt gcaagaatgg cacttcgttg cttggtgatg tcccttttctg ttctcttcac    60

tcttggtctt gcgagagaaa gccatgccag agacgaagat ttttggcatg ctgtttggcc    120

aaacactccc attccaagtt cattgcgaga tcttctaaag cctggccctg caagtgttga    180

aatcgatgat caccctatgc aaattgaaga aacacagtac ccgaaaacct tcttgtataa    240

agaagacctt catccaggca aaacaatgaa agtacaattc agcaagcctg cctttcaaca    300

accatggggt gttggtacat ggttaaagga aattaaagac actactaaag aaggatatag    360

ttctgaagag ctatgcatca agaaagacgc cattgaggga gaagag                 406


<210>      3786
<211>      399
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058a08a1

<400>      3786

agaaacactt cgagtcaggg agaagggaat tggaacttat acggcttctt gaggatggcc    60

caggaacctt gatccaaatg gtctacagaa gaccacgatc atatgccaga gggcgagatg   120

cgcggtgtat ctctatgtga ggggaagatg gggaagactc tggtgagaag ctatgggccc   180

taacaactac tcctgactct gattgaagag ctcgcaccgc ccgtgaatgt gatgctgaca   240

attcaccgct ctacttatgc aaagggggag cataccaact ctgtaattgc gtcttctttc   300

ggagtggcag cttcagctct atgtcctgat gtgaaagaca tcactgtgga tgacgacctc   360

aagcagatac gtctaaggtg cagaggctag cttataagc                          399


<210>      3787
<211>      416
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058a09a1

<400>      3787

gtcacactgg tgaaaacttt tgctgtgata agaggatatt ggaacttact caatcaattc    60

tgtggatgat ccacaaacct tgaacagaat tgtctacatt agaccaccaa ctaatacctt   120

gtcgtttaac gagcattggt gctctctggg agggaaagac tggacaaaca tctgcaagaa   180

gctatggtcc agaagaacga ctcctgaagc aaattggata gtccgcacca cccgtgaatg   240

agatcctgtc aattaacctc tcttgttatg tgaaggggga tcattctaac tttgagattg   300

aagcctgtta ttgcgtggaa gcgctgacta tatatcgtga tgcaaaatac atgactgggg   360

atgcgctccc taatcagtgc gtctaacgtg caaagcctac ctgatcggtt tgatta       416


<210>      3788
<211>      301
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058a10a1

<400>      3788

gatttacatg agacaccttt cactacaact gttgctctac actatgcaac ctttttcct    60

```
ctgcattggg  acccctgcca  gctacccctg  tctataaatc  tgactttgac  tggcccatgg   120

agccagctag  agcctacaga  tggaatctga  cagcacatgc  tgctaggcct  aacccacaat   180

ggtcattcca  ttataggatg  actactactg  cgtcagtagg  gatggtggcc  acgacagcac   240

ctttgatgaa  tgggaaggtc  ccatctgtct  gtaacagtga  ctcctatgct  caccctgaca   300

c                                                                        301


<210>      3789
<211>      489
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058a11a1

<400>      3789

gatttacaga  gacacctctc  actacaactg  ctgtactaca  ctatgcaact  cttttttcctc  60

tgcattggga  cccgtgcctg  ctccccctgt  tgataaatat  gactttgact  ggtccatgaa   120

gcaagctata  accctacaga  tggaatctga  cagcaaatgc  tgctaggcct  aacccacaag   180

ggtcattcca  ttatgggaag  attactccta  caaaagtaat  taagttggcc  aattcagcac   240

ctttgatcaa  tggaaagctc  cgttatgctg  ttaacagtgt  ctcctatgtt  aaccctgaca   300

cccctctcaa  gcttgctgat  tacttcaaca  ttcccggaat  cttcagtgtg  aatttactcc   360

aaaactctcc  ctcaaatggt  ccaggataca  taggcacctc  agtgttgcaa  acttctctcc   420

atgattttat  tgaggttatt  ttccagaaca  acgaaaacac  cattgcatct  tggcatcttg   480

atgggtatg                                                                489


<210>      3790
<211>      440
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058b01a1

<400>      3790

aattagagga  attagatgat  aacctcaaat  aaatgcacaa  agatatacca  gcccaagtgg   60

atgcctatga  cacatcacat  gtgaggttga  accactatac  ttctaaatat  catgaagagg   120

gtgtcacaaa  gcagaggtca  ctgaacgata  attagacgtc  acatactgga  ggcattgtga   180
```

1550

```
gaaagcgctt tgatatgatt gatagtgtgg ctacgttgcg tgaacagaac atgactatga    240

ctcatgatga agaagagctc ggatgaatcc tagatactat ggatcacgtc attaccgatc    300

tgatggacga aggcatacaa ctcaagggaa tacgagaata ctttagcttg atcacgactg    360

aatggcatga gcttacttat gattcacagg tatgagcggc catattggga gctgcgcaat    420

gagttgtaga tgggccattg                                                440


<210>      3791
<211>      449
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058b01d1

<400>      3791

agaaagtatc atgcttgatt actgattgat ggacagtcta aataacaatg taaaaccatc     60

gtagttcctc tgtacatgaa aatagacgga tcataacaat catgcccaaa tcacttctaa    120

aaattcatcc attcaggatt acacgagaag gacacaggct tatccatgtc attggataca    180

aacttagtag ccacgaattg tattgatgat ggtgttgtgc cacgggtcag agaggtgctg    240

caataggttc tcaaatggtc ctttgcctgt cacgttgtgt tgaactatga atcccaagaa    300

tgccaacata gccaatctcc cattggcaag ttccttctcc ttggcctcca agtaggtgc    360

aaagttcaag gggttaaaca cactaccagg gtatccacac tcatgttggg gcaagctgta    420

ttgcttgaag atggggtctt ggttgacag                                      449


<210>      3792
<211>      254
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058b02a1

<400>      3792

ctcgagccga atcggctcga gcattcttat aggctaatta acatacactc tcttccaaag     60

ttgagtactt tgccaaaaaa aaaaaaaagt tttccctttg agaaagaaaa cccaaagaca    120

gtcttttgat cattttgagc agttgcattc cttgatttct tccattttgg gtcccctcaa    180

aagtagtttc aaaagggttc ctcttcctcc acagatatca tggcagatca taccccgggt    240
```

tcaggaaccc gttt   254

<210>   3793
<211>   404
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058b02d1

<400>   3793

attacgaggt ttcttttttt aacaaattcc ttaagtaaca tagtatctct tcatgaatgg   60

gtccatgctg aaataatcat ggaagaacat ctgaagaggt atagaagagt ctgtcaaatc   120

ttcaggaaca agtttcaatg agctttttag ccttgaaagg acccaacatt ggatggaaat   180

atacaaatgt aatcaacatg tgtagacatc tcaaaggaaa ggtatcaggg cagaactaag   240

acccttgaaa caagaaatct gctgaccaca cagttcttca tttccttttt cctgaaccaa   300

gtgacaggag ttcaaagctc ctgagtgtat catcacgacc acctcttgtt gctgaagccc   360

gtgataaaga tgttccggat tcaaaaccag gttgaagtct ctga   404

<210>   3794
<211>   511
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220058b03a1

<400>   3794

cgaaacgaca gcatgtggtg gccgttcagc agaaaagaga aagagggttc tggattttca   60

tcttcttcca ctgccgagga agttactgaa ggaatcgatg gcactgccct cactgctatt   120

gttacagggg catctagtgg tattggtgct gagactaccc gtgttcttgc tatgcgtggt   180

gtccatgtaa ttatgggggt gaaaaatatg aatgctgcaa aaaatataaa agaaacaata   240

cttaaaggga ttccctcagc taaagttgat gctatggagt tagaccttag ttcaatgaca   300

tctgctcgaa aatttgcatc agagttcatt tcttctagtc ttccactaaa cattttgata   360

aacaatgcag gaatttgtgg aacccctttc atgctgtctg aagataacat cgaactacaa   420

tttgccacaa atcatatagg tcattttctt ttaacagatc tgttattgga tactatgaag   480

                                     1552

aacnacacac atgaaagtaa gaaacaggga a   511

<210>   3795
<211>   257
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058b04a1

<400>   3795

agaactgcaa atatacactg caatgtatgc catgaaaggc tccgaattct ggtaatgctt   60

ttccagaatg cagaaagatt gtttattgtt acgtccattg tacaccttgg acactgcggg   120

ctcatggagg ggtgtttata aacactagta acctggggtg cccaaaaaca tctgaacgat   180

tactggcatc agggaccctg actcacaagg gcacagaaac tgaacacaga ccttgggtgg   240

gggactcatt tactggt   257

<210>   3796
<211>   396
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058b05a1

<400>   3796

atcttcttct tcttcttcac tcagtcagat ccaactcctc agataacaca agaccaaacc   60

cgcttttttct gcatttctag actagacgtt ctaccggaga agcgacctta gaaattcatt   120

atggtggcaa cagctgctac ttcatcattt ttgcctgtta cttcaccctc gccggactct   180

ggtggagcag gcagcaaact tggtggtggg cctgcaaacc ttggaggact aaaatccaaa   240

tctgcgtctt ctggtggctt gaaggcaaag gcgcatgccc cttcgaaaat taatggaacc   300

acagttgtta catctaaaga aagcttcacg catgatgatg atctacctct gcctcccccc   360

agaactttta tcaaccagtt gcctgactgg agcatg   396

<210>   3797
<211>   410
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058b06a1

<400>   3797

gtacctagca acagtagcag cggatatacc gagacggaga tagaaaaaat attacgcagg   60

aatcgaattc ttaattttat cagatgatgc gacttcacaa actgtatcat cgcttcactc   120

ttgtcccect ttcgctccct tctaatccct ctcttcttcc tctcgctcct ccgttgcgcc   180

tcacgctccg tcaccgaacc tgtgtgaact tcgcttccat ggcttcctcg cggctgcgca   240

atttatcacc tctcgctgct gcgcccactg aagacgccga cgctgcctcc atttcttgct   300

ctcccaacgc cgttgcttcc gttgactacg atgatgagtc aactgtagga gtaaaggatc   360

gcgttcctcc atctgtgatc agtgatcttg ttgatgctcc acctgtacct   410

<210>   3798
<211>   423
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058b07a1

<400>   3798

ccaaacccct cttctctctt ccccctgaaac atccctcctc ttccaacaaa atcagtgagg   60

atctgagaag aagcattggc cagaggtggt cagctttttc cttctacgca tgactgcaag   120

gggcagcgac cccataaggg gtcgtctttg gccacaaatg gccttggcat tggccattgc   180

tttcatttct tccactgtgg tttccgtcaa tgctgatgga tatccttact attctcctcc   240

accaccttat gaatacaagt caccaccttc tcctccttac gtgtacaagt gtccaccacc   300

tccaccatat gagcacaagg atccaccata ctattacaac tcaccaccac cttcctatta   360

ctataaatgt actacaccac catacgcctc tccttcttcc ccctactact accactcccc   420

acc   423

<210>   3799
<211>   235
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058b08a1

<400>   3799

agacatgccc gtcgaatacc actgctaatg ctcgcgcatc gcacgcgtcc gtaatctggt   60

catgcctttc tagcgaaaaa tggactgctc catctactgg ctggcgcttc gaatggcgag   120

aggcataatt tcttggtaac gataaccaca tggttcaact gtaacgcaca catgtggtcg   180

gtactccttg ttgagcgtgg ccctggtctt ggtttagagt gtcaccatcc accta   235

<210>   3800
<211>   527
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058b09a1

<400>   3800

ctgctcagag cctcattaag tttttctctc tttcacttat ttattgactc tccataagcc   60

cttcaaacct ctctctattc ctctctacta gtcaccttct cccttccatt cactccactt   120

cttaacaccc ccaaacagaa caacggcaga gcaagcagcc agaaaaatgg tgttgctgtc   180

caaagcaaca acagaacaat actcctacat caagaactac atgccaactg cattctcctc   240

aacaattccc atagtggacc tctccaaacc cgatgcaaag accctcatag tgaaggcttg   300

tgaggagttt ggattcttca aagtcatcaa ccatgggtgt gcccattgaa gctatatccc   360

aattggaatc cgaagccttc aagttcttct ctatgccact caatgagaag gaaaaagcag   420

ggcctcccaa accatctggg tgtggtagca agaaaattgg acacactggg gatgttggat   480

gggttgagta ccttcttctc acaccaatca agacacaact tctcttt   527

<210>   3801
<211>   477
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220058b10a1

<400>   3801

acaacctctt gtttctcttc ttcttcctct tcttagcctc cgccgccgcc agcgtccccg   60

cccacaacat cacccgcatg cttgccaaac accccggctt ctccacctat aaccactatc   120

tctccctcac ccacctngcc gaagagatca accgccgaca gaccatcacc gtcctggccc   180

tcgacaatgc cgccatgtgc tccctcctgg acaagcacct ctccctcccc accatcaaaa   240

acgtcctctc cctccacgtg ctcgtcgact acttcggggc caaaaagctc caccagatca   300

acaacagcac caccctggtg tgctccatgt accaggccac cggctcagac tccggcaccg 360

ccggctacgt caacatcacc aacctcaagg ccggccaggt cggcttcgac gacgaagaca 420

acgacggctc cctccactcc ttctacgtca aatacgtcca ggaaatgccc tactaca 477

<210>   3802
<211>   359
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058c01a1

<400>   3802

aaaccaacaa agccataaga aagaatggat gggatgctta tgagcatatc tacacctaaa   60

gggacagcct caaaactgac accatatggg attatgttac cgatgctgta cctcacgcgt 120

taatgctctg tcacaggcaa ctgacgaact cccaacccaa agtaggccac gatactcact 180

ggcttatcta ctctcactcc catggctcta atacacatca tcactctacc cataatatca 240

catggtgatc ctgaaactcc actacattca cgctgcctct tacgacacaa cgatggaaca 300

ggtttgacac gcaaggttcc acgacttagc ctagaatgtc ataggcgaaa tcgaactct 359

<210>   3803
<211>   494
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058c01d1

<400>   3803

aatggcggaa caatacaaca ttttttttac acagcaaagc tatggtcaaa caggaagttt   60

ggtatctttt gctttccacg agaatttgat atcaaatatt ttaatgaacg gcgtgtaacc 120

aaaacagaga aaacagagca ctcttttttaa taaacaaaca cagctttagt tcaatgaaaa 180

acttttccag actcttgatg atgatggatg gatgttgcgg gtgtcgtgct ggtatacttt 240

cttttactaa tcaacaagtt tgctgccttt gacatccact acaaacctgt atctcacatc 300

gttcttctcc aacctttcaa aggctttgtt aatgtaatcc atgtttacca cttcaatcat 360

cgaactcaga cccttctctt tccagaactc caacatctcc tctgtctcct tcatgctccc 420

aataaagctt cccgtgattg acctcctccc tagcatgacc atggggctaa caaattgaag 480

1556

aggggtgttg atga   494

<210>   3804
<211>   213
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058c02a1

<400>   3804

agctcggaat tcggctcgag ggaccaacaa ttccatctgt tgtaatggct tatccttatg   60

atcataatac tggttatggt tcaccagcag agcagcttga gtttgggact ttgggaccaa 120

tggggttctc aggtgtcaat gagctgtcac aggcgaatga gggaactcaa tctactggag 180

cacatgaaga tcagaggtta tgtggtggtc aca   213

<210>   3805
<211>   396
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058c02d1

<400>   3805

ggaaaggatc cataggattt gccccttagg acattcattc ccagttctat attgatctta   60

gaaattttgc ttcaacgcca tgaaattatt ggaaaaaaga gtctcccttt cctttctcac 120

ctttctggta tgcataatcc cctataatga ctaaaaaatt taacttattc tatgagaaca 180

tagtatgcct aatcagttgt ccaaggatcg ctctctgcaa tgacttcaga aggttcataa 240

acttctggct ctgaactttc ttcacttgtg cttgaatcag cagcttcaac agaagcatct 300

gcctactatg cttctgatct accccatctt cctcccaagg ccaatgccat catttcgtaa 360

atcttatttc ctaactcagc agggctgtca ggagaa   396

<210>   3806
<211>   461
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058c03a1

<400>   3806

```
cgaaacgaca gcatgtggtg gccgttcagc agaaaagaga aagagggttc tggattttca    60

tcttcttcca ctgccgagga agttactgaa ggaatcgatg gcactgccct cactgctatt   120

gttacagggg catctagtgg tattggtgct gagactaccc gtgttcttgc tatgcgtggt   180

gtccatgtaa ttatgggggt gaaaaatatg aatgctgcaa aaaatataaa agaaacaata   240

cttaaaggga ttccctcagc taaagttgat gctatggagt tagaccttag ttcaatgaca   300

tctgttcgaa aatttgcatc agagttcatt tcttctagtc ttccactaaa cattttgata   360

aacaatgcag gaatttttgg aaccccttc atgctgtctg aagataacat cgaactacaa    420

tttgccacaa atcatatagg tcattttctt taacaaatct g                       461
```

<210>   3807
<211>   483
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058c04a1

<400>   3807

```
ctcacactca tcatggaccg ttttccgatt ttctttctcg tgagcaccct cattagggtc    60

gccggcggtg cccgtcacga tattctccgg ttacccttcg aagtttgcat ggactgtaaa   120

gcacctgcta atgccgatca aaacgatgag ggcaccacga gggccgcttt agttgccggt   180

tccaatggct actggaatta caggcaccag tgtgaaggcc gtcatgcata tcaactactg   240

aggaaaggtg gtgagaaaga ggaaaatatt gatggcctat agcggaggac gttgctagca   300

atgaggagga cccacggcct gtagtctcta ttaacagtcc acacggaaat gatgttcaca   360

agggagttcc taaggattac gttggtgaag atgttactgc tgacaactct tttgctgcta   420

tacttggaaa taagtcagct cttactggag caaggggaa ggttgtggat agtgtgcccc    480

aat                                                                   483
```

<210>   3808
<211>   499
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220058c05a1

                                 1558
```

<400>   3808

atcttcttct tcttcttcac tcagtcagat ccaactcctc agataacaca agaccaaacc   60

cgcttttct gcatttctag actagacgtt ctaccggaga agcgacctta gaaattcatt   120

atggtggcaa cagctgctac ttcatcattt ttccctgtta cttcaccctc gccggactct   180

ggtggagcag gcagcaaact tggtggtggg cctgcaaacc ttggaggact aaaatccaaa   240

tctgcgtctt ctggtggctt gaaggcaaag gcgcaagccc cttcgaaaat taatggaacc   300

acagttgtta catctaaaga aagcttcaag catgatgatg atctaccttc gcctcccccc   360

agaactttta tcaaccagtt gcctgattgg agcatgcttc ttgctgctat cacaacattn   420

ttcttggccg ctgaaaagca gtggatgatg cttgattgga agccacggcg acctgacatg   480

cttattgacc ccttgggat   499

<210>   3809
<211>   506
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058c06a1

<400>   3809

ggaatttggc aaaaagtagc catcgcccca acgatcccat ttcccttgac ttctctacgt   60

gaagatcctt gtgtcgcata gagctagtta aaatgtctga gggaaatgca gggaaaggaa   120

agagaatcgc catcattggc gtctcagcct tattgttggt ggctatggtt gtggcaatca   180

cagttggggt caatctcaat gagaatggtt ccaacaatga tacagaggac aacaagaaaa   240

atcatgttgt ttcttctata aaagccgtcc aaaccctttg tcatcccaca aattataaga   300

aagaatgcga ggaaagcctt atagctgggg ctggaaatac cacagatcca aaagaactta   360

tcaaaatttt cttcaacatc accattacaa aaattggtga taaactcaaa gaaactaata   420

ttttgcatga ggttgaggag gaacccagag ccaagatggc acttgaaaca tgcaagcaac   480

tcatggatct atctattggg gaatta   506

<210>   3810
<211>   427
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058c07a1

<400>   3810

gtggagacca gcttgttcca tattatgctg tcattcttgg agcccttttg ccttgtatag   60

ccgatgcaga agagaaactt agagttgttg ctcgtgaaac caatgaagag ctacgtgcct   120

ctaaggcaga tccacctgaa gcgcgagatg taggagcact cctgtccatt gccaggaggc   180

aattatctag tgaattggag gctactctaa tcgaagcttt gcactggata tccacccttt   240

taaacaatta tcggactgag gtttggcagt aacagaatga catatttggc actctgctca   300

tggcactttc agatccatct gatgaggttg ctcttggagt tcttgatgtt catgcatgca   360

ttgcttacga ctctcagcac tttcgggcac gtgttgactt gatggtgcac agtttccggg   420

tagacaa   427

<210>   3811
<211>   380
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058c08a1

<400>   3811

gacaaaaaaa gtggatgtat ataaagccta tcacatgact ggtggtgagg gcctaactcg   60

cttatgtcta taactctcta ctacagacca tggaccttgc ataagctaca ctcattatca   120

cccacacaga ggacgaccgc tgccctggca cccctacaaa gggcgtaggc gtcgatagct   180

agggctgatc ctttgtacca cacaccgaac tacatgtcaa ctgtattttt ctggccattc   240

acggtagtgg acctatgaat acgcgacgac tcacaatgat agggagtgct gcgatgagct   300

tgcaacatat gacgtcaatt accatggcga ggccattgca gctatacaac aattggtatg   360

gcaagacatg aaaaacgggt   380

<210>   3812
<211>   458
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058c09a1

<400>   3812

```
ctgctcagag cctcattaag tttttctctc tttcacttat ttattgactc tccataagcc    60

cttcaaacct ctctctattc ctctctacta gtcaccttct cccttccatt cactccactt   120

cttaacaccc ccaaacagaa caacggcaga gcaagcagcc agaaaaatgg tgttgctgtc   180

caaagcaaca acagaacaat actcctacat caagaactac atgccaactg cattctcctc   240

aacaattccc atagtggacc tctccaaacc cgatgcaaag accctcatag tgaaggcttg   300

tgaggagttt ggattcttca agtcatcaa ccatggtgtt cccattgaag ctatatccca   360

attggaatcc gaagccttca gttcttctc tatgccactc aatgagaagg aaaaagcagg   420

gccctccaaa ccatttgggt atggtagcaa gaaaattg                           458


<210>      3813
<211>      448
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058c10a1

<400>      3813

ggtgacacac acctactaca attgataaag tcctttcttg tcatagcaaa aatgaagctt    60

gccttggcca ccctactgaa atggtctcta cttctaagct cctctttctt ggagccagtc   120

atcccctatg aagactagct ttattgcagc aacaagtgat cagacagatg ctcatcggcc   180

ggggctaaag atccgtatct gaggtactgt ggaatatgct gtgctgagtg caaatgtgct   240

ccttactggg acctatggga acaagcacca ctgagcttgc tacagggaca tgctcaacaa   300

gaagggcaag cccaaatgcc catgaagtct tgaactcaaa gaccaagtca cacacagact   360

tatgagaata acactagtgt gatgcgttta caactacatc gtgaactccc acacataatg   420

tgggatggat atacgctaga tctgcacg                                      448


<210>      3814
<211>      441
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058d01a1

<400>      3814

ggaccaacaa tgccatctgt tgtaatgttt tatccttatg atcataatac tggttatggt    60
```

tcaccagcag agcagcttga gtttgggact ttgggaccaa tggggttctc aggtgtcaat   120

gagctgtcac aggcaaatga gggaacttaa atctactgga gcacatgaag atcaaaggtt   180

tcgtggtggt cacagtcaac gatcttcccc agatcaaccc tcctcacctc atgtctcaag   240

gggtccctga ttctgcggtc aggtcaagtg gccaggagga attcttgaaa gaggaggatt   300

gatcctcttc attctaggac tgggcagggc atgtaaccgg ggaatactat ctgtccattt   360

catggcatta ttggtcttta aaaagaaaat gaatgtagcg tcctttgctg attgtgccca   420

ggctcttaca tgtacactta c   441

<210>   3815
<211>   310
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058d01d1

<400>   3815

aaaacccata caaaaaaacg tttaatgaaa tacaaacatt tataacaagg ggaaaccaaa   60

atttccccag gggaaaattt aacccttaaa aacatcttaa aaaacaacca gagaacggaa   120

tttattattg ctaaaagtaa aggcaagcgt tttgaaccat tatgcccaaa acacccaaaa   180

acaggattaa gggggggccag ttttacaagc ttttttcaaa ggaaggcgtt ctaagggggtg   240

ataaaagcaa atccgttccc tacgggccct taggggtaaa gccccatcaa aaggtttggg   300

actaaaacgg   310

<210>   3816
<211>   260
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058d02a1

<400>   3816

ggaccaacaa tgccatctgt ttttatgttt tatccttatg atcataatac tggttagggc   60

tcaccagcag agcagctcga gtttgggact ttgggaccaa tggggtttct aggtgtcaat   120

gagctgtcac cagcaattga gggaacctaa tctactggag cacatgaaga tcaaaggttt   180

cgtggtggtc acagtcaacg atcttcccca gatcaaccct tctcacctta tgtctcatgg   240

ggtccctgat tctgcggtca   260

<210>   3817
<211>   513
<212>   DNA
<213>   Glycine max

<223>   unsure at all h locations
<223>   Clone ID: jC-gmfl02220058d03a1

<400>   3817

gcagcatgat ggtggaagaa taagaccagc agaagcttcc agatctggtg aaggaactag   60

tccaccgcct cctctcccaa aacctccccc caaattcccc tcccctaaac cctaactccc   120

ccgaattccg caactccctc cgctacgccc tccgcatcct ctccagccgc ctcacccect   180

ccgtcgcccc cgacgccgcc gccatcgccg actccatcaa gcgccgcctc gctacccacg   240

gccactcctc cgaagccctc tccttcgccg acctcttctc caaattctcc tccaaagccc   300

aaagcgtcaa caacaaattc gccgtcatct acctcctcaa aatcgtctcc gaagatcgcc   360

acaccaccac cgcaaccacc acccctctcc tccccaacct cagtttctcc gaacctacct   420

ccaacaaaaa accctggaac gacaacggcg ccctcctcat ctncaggacc ccgagaaccg   480

ccgcgacgtc gcgtttcgcg agttcgtcga tct   513

<210>   3818
<211>   192
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058d04a1

<400>   3818

gcaaaacaac atggccccgg gattcactac actatcaatg cacgccctcc tcagctacga   60

aagctggtaa agcggcttga gcgaaactac tatttgcagc gttccctcat caaaggacaa   120

aagggggggg ctgatttcaa tctgggggca ccgcccaaga agatactgaa ggaatataag   180

gctctggcct ca   192

<210>   3819
<211>   559
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058d05a1

<400>   3819

```
accacttcca ttctcaatca ccacactgat ctggatcgag gttctcgtaa ttggctacat     60

agagttccag aggaacgcag agctggaccc agaaaagagg ctgtacccag gtggcagtta    120

cttcgaccca ctgggcctgg cctcagatcc agagaagaaa gccacccttc aattggcgga    180

gatcaagcac gcccgtctcg ccatggtggg cttcttgggc tttgcagtcc aagctgccgc    240

cactggcaag ggcccgctca caactgggc cacccacttg agtgacccac tccacacaac     300

catcattgac accttctcat cctcctctta agaagaagca aagaagaag aatagtcttt     360

cttgtgcctg gcattctagt tatattgaaa agtctttttc ttcttcttcg ctttgggtt     420

gtaattaaac attttctaca tagctggatt agtagtactt gtgaaaaact tgtaacgtga     480

aattggagag gctaagcaga aatgcttctg cttgatggta agtgttctcc tgtgaatgtt     540

aattatgcac gaaatcgag                                                 559
```

<210>   3820
<211>   500
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058d06a1

<400>   3820

```
atcttcttct tcttcttcac tcagtcagat ccaactcctc agataacaca agaccaaacc     60

cgctttttct gcatttctag actagacgtt ctaccggaga agcgacctta gaaattcatt    120

atggtggcaa cagctgctac ttcatcattg ttccctgtta cttcaccctc gccggactgt    180

ggtggagcag gcagcaaact tggtggtggg cctgcaaacc ttggaggact aaaatccaaa    240

tctgcgtctt gtggtggctt gaaggcaaag gcgcaagccc cttcgaaaat taatggaacc    300

acagttgtta catctaaaga aagcttcaag catgatgatg atctaccttc gcctcccccc    360

agaactttta tcaaccagat gcctgattgg agcatgcttc ttgctgctat cacaacaatt    420

ttcttggccg ctgaaaagca gtggatgatg cttgattgga agccacggcg acccgacatg    480

cttattgacc cctttgggat                                                500
```

<210> 3821
<211> 346
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220058d07a1

<400> 3821

cattagcgaa gtatgttaaa gttgtgtatt ttactccagt ttcagttggt atgcgggtca   60

ggaggctgtt tgaaacagag gagtcaagtg tgcggagata catgggtaca ataacatggc   120

attagtgacc tggatcctgt ccggtggcaa aactcacatt ggcgctgcgt caagggtggc   180

tgggatgaat ccactgctgg agacaggcaa cctacagtgt ctctttggga aattgagcca   240

ttaactacat ttcctatgta tgcatgtcca ttcccccctta ggcttaaacg ggcatggtct   300

gcaggactgc cttcattcca tggcatgaac gatgacgatt ttgtcc   346

<210> 3822
<211> 379
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220058d08a1

<400> 3822

tccacagcct acgtatgctg ggaatgcgga tagagatcac ggaccgcttt ccgatccatt   60

ttctgagaaa caccctcatc accctcggct ccggcgcccg acacgatatt cttcggttac   120

cctacagaag actacatgct ctgtacagca cctggtaatg cctactataa cgatgagggc   180

tactatgtgg tccgacgtag gagccggata ctatggctac tggaaataca agcaccaaac   240

ggaggtcggc catgcatatg aactacagaa gaaaggggga gcgaaagagg aaaacgttga   300

agtctatatg tgtggcgaca ttgcggtcga tgaagaggac ccacggtctg gattcgttgt   360

taacagttca cactgcaaa   379

<210> 3823
<211> 569
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220058d09a1

<400> 3823

gtagaacctt cactctgcta tcccccatat tcctgtgttt cctttgaaaa aaaaagaaga   60

agaaaaaaca tgtctaggtt ttttggattc ttctttgtgg gtcttacgtt gatgttggtc   120

ggtgtggcaa atgctatggc taactcttcc aacaaatttg atcaactctt ccaaccaagt   180

tgggctttg accactttat tcatgaaagg gatcttctca aactcaaact tgacaaattt   240

tccggggctg gttttacttc caagagcaag tatatgtttg ggaaagttac catccagctt   300

aagctcgtgg aaggtgactc tgctggaaca gtcactgctt tctatatgtc atcggacggt   360

ccaagccaca acgagtttga ttttgagttt ctaggcaaca tcacagggga accttactcg   420

gtccaaacca acgtgtatgt gaacggtgtg ggcaacaggg agcaaaggct caacctctgg   480

ttcgacccca ccaaggattt tcactcatac tctatcttct ggaatcaacg tcaaagtgtg   540

taagcaccca ttccccttct taattatgc   569

<210>   3824
<211>   502
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058d10a1

<400>   3824

cgaaaggtag ggttttgcag agcctcgtcc tcctctcacg gtttcttctt tttatcttct   60

cacctttctt cttccactgc tctaatctaa gatgggcaag tcaagcaaga aatcagctct   120

caaggtcgac gctgttccag ctgtggttcc gccatccaag tctgccaaga agggaggcaa   180

gagacaagct caagatgaaa ttgagaagca attgagtgcc aaaaaacaga agataaatga   240

ggttgctcag aaacaaaagg aggcaaaggt gcaaagaag gaaagtagtt cagatgattc   300

ttcttcagaa tctgaagatg agaaacctgc acccaaatct gctgttcttt caaaaaagat   360

acctgctaag aatggtgctg cccctccaaa gaaaggcaag ctcgcctcca gttcttctga   420

agatgactcc tctgatgagg atggtgtgcg tgcaagaac cacagataat ggttgctgag   480

aaacacaaga atggagcaac tg   502

<210>   3825
<211>   506
<212>   DNA
<213>   Glycine max

1566

<223>   Clone ID: jC-gmfl02220058e01a1

<400>   3825

attgaattct tcttcctgca atgccaggaa ccatcatggt ttcagtactg gaattcatgg   60

atcttccatt atcttcatca acattcataa gggcttcctt ggggaaaata gagtaccaag   120

tgaatgacaa gggaaactta tccttcccct taactagcct ccgtgatgat ttgatcttca   180

aaattcttga ttctgagggg aatgaaatat cacgtacagg tgttcaaata aattgatatt   240

ggagaaaggt gttttggaag acaactttcc ccttggaggt ggccatctgc gtttgaagtt   300

gcaattcatc cttagtgatg aagagcgcga cagaattcgt tcattgagac aatctgcatt   360

aaagaaaaaa catgatgagc ttcttagttc cagtagaaga ggtgaagaaa gcgatagtag   420

aaccgtgatt ggaaatgctg cattgccctt tcgcagaaat gatgaggtct caggcttttt   480

cctgatgttt taagtgctcc atcttc   506

<210>   3826
<211>   518
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058e01d1

<400>   3826

tgtgcttgca ggaaggtttc ccgtcatcac tgtatgacgt cctccttctt tggggggggg   60

gggggacaa aggtgtaagt accaaaggcg gtatagagaa cctaaagaaa tgatattagg   120

ggttctaggc acaccaccag accaaacaga catgaaaaac caggcggggg ggagaaagaa   180

taggacaaac gcaaggaaag ggcacgagag gcaatagaag tcgttaccgc gaccccgccg   240

aaactatggt atgggataag tcgttcagtg atgataaggc atggcctagg ccctaattgt   300

tgtctgcagg gggggagtat acccaacagt aaaggacact tggaaaaggg cttagataaa   360

cacagcgtgc taccgctgcc aaaaccggaa acaagtgaag gcaattaacc aggtgttgac   420

gaatcgggga cggataagca aggtacgaca gtaaccaagg tgcaaacggt ggtaggtgtg   480

ggaataattg ggtgcatgcg cggtgggcct aatgaaat   518

<210>   3827
<211>   283

1567

```
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058e02a1

<400>      3827

gaaaaaaaaa aacccttagc caacacaacc atcatggcca cctctgctat tcagcagtca    60

gcattcactg gtcaaactgc tctgaagcag ctcaatgagt tcgtccgcaa gaccggtggc   120

gccggcaaag gtcgcactaa catgcgccgc accgtcaaga gtgctcctca gagcatttgg   180

tatggccctg accgacccaa gtacttgggt ccattctcgg agcagattcc atcatacctg   240

accggacaat tccctggtga ctacggatgg gacactgctg gat                     283


<210>      3828
<211>      348
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058e03a1

<400>      3828

atttcaatat tattaaacaa caggtggagt cgtctatatt gatgaatgca aacttcaatt    60

cttgtttcaa tctatgccat ttaggaattc gtaaacctat atgccttaat ggatagagaa   120

tcactactga gaatagcttt gtctgattta gaatcaaacc ttcctaggtt tttcttattc   180

ttaagaatat agtgttccca tgcaaataca tgaaaatatg atatatttgt ttctttgtcc   240

ttcctcaatt catatgctgt cttgtgcaaa atgctcttga ttgaaaccca attcaattca   300

tatgtagtat ataacaacta tttatggctt cagctcaaaa atatttt               348


<210>      3829
<211>      391
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058e04a1

<400>      3829

tgggtatgct gatccagttg ctatttcttt ttcagataat aggttaagag cggctatact    60

gcgggctcag gggatatgcc attagcgcgg aactaacaag cagaaaattg taccaccaca   120

ttgtggctac tggtccacct tagatggaaa caactttggc aacagcgata ggaaaagaag   180
```

ctggaacaat tattataaca ggaactgtaa catttacaat gactaccgaa caaaatttgg   240

ggaccatggt tgcccctttc atttttacac ctctgaacat gctgatgatg ctcgataaga   300

tgctgatcca tcatctttgg aaaggagaaa atattcactg tctgcttggc aagaaagcca   360

gcaatactat gttccacccc atggaccatg a   391

<210>   3830
<211>   499
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058e05a1

<400>   3830

ctgcacagta gtgtggtacg atgatttgat tttgataaga taggtctgtg ctgtggggaa   60

aattggaagc atcgatcgga aaatgcaatc gttatcgttg agtatgagtc tgaggagtag   120

tagcttagtg aattttcttt tgctgggttc agagacgaga gtgagaagca gaaggagtgt   180

catcgtagcg tgtgcttcag agggagacag tggcagcagt agcacaagct cgtttctctc   240

tcggacccaa acctacgctc ttcttaagca acaattgcaa gtagctgcta aatccgagga   300

ttacaaggaa gccgctagaa ttcgagactc gttgaagcta tttgaggacg aggaacctgt   360

tttgcgtctg aggagactat tgaaggaagc agttgctgaa gagagatttc aggatgctgc   420

tagttatcgt gatgagctaa acaaaattgc tccacactct cttttaaaat gttgcagtga   480

tgctacaaca ttgggaatc   499

<210>   3831
<211>   458
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058e06a1

<400>   3831

atttgagggt ggtgttgatg caggagagca tgcctccatt gagcttgcat tgttgaacat   60

gggtcttcta cacagagctg taaagagaaa ctgtaggcct atggtagaac tactgttaag   120

atttgttcca gttaaaacct cagatggtgc agacagtgaa atgaagcaag ttgccgaagc   180

ccctgacaga ttcttatttta gacctgatac tgtcgggcca gctgggttga ctcctcttca   240

tgttgcagca agtatgagtg gctcagagaa tgtgttggat gcattaacca atgatccacg   300

aatggtggga attgaagcat ggaaaagtgc ccgggacagt acaggttttg acccctaacg   360

accatgcttg ccttaggggc tattactctt tacattcact agtccagaac aagaaccaca   420

agaaaggtga agacaacatt tgttgatatc cctggaac   458

<210>   3832
<211>   558
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220058e07a1

<400>   3832

ttcacaccca tcatggaccg ttttccgatc ctctttctcg tcgccaccct catcaccctc   60

gcctccggtg cccgccacga tattctccgg ttaccctccg aagcttccag gttcttcaaa   120

gcacctgcta atgccgatca aaacgatgag ggcaccaggt gggccgtttt agttgccggt   180

tccaatggct actggaatta caggcaccag tctgatgttt gccatgcata tcaactactg   240

aggaaaggtg gtgtgaaaga ggaaaatatt gttgtattta tgtatgatga cattgctttc   300

aatgaagaga acccacggcc tggagtcatt attaacagtc cacacggaaa tgatgtttac   360

aagggagttc ctaaggatta cgttggtgaa gatgttactg ttgacaactt tattgctgct   420

atacttggaa ataagtcagc tcttactggt ggcagtggga tggctgtgga tagtggcccc   480

aatgatcata tatctatata ctactctgat catggcgggg ccggagtgct agggatgcct   540

actaatccat acatgtat   558

<210>   3833
<211>   475
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220058e09a1

<400>   3833

atcctctgct tgtaccaaac ccatcttccc ctctgccttc accgtctcta agtcaaagct   60

ctctcgtcat gttcatgtct ccttcacctc ccccaaaccc atctactacc actacagaaa   120

gctctctcat gcctctcaac gttccttggt ggtcaacagc gttttgaaaa cagttgaccc   180

```
gacacaaacc tctttgcgga gatccaactc cgaggatgtt gggtctctgg gagaaaagcc    240

caccatcctg gtctccgaga aacttggaga ggcagggctg cacgtgttac gtggcgttgg    300

gcacgtggaa tgcgcgtatg agctctcaca ggaggagcta tgcacgaaga tctcgtgctg    360

tgacgctctg atagtcagga gcgggacgaa ggtgacgagg gaatgtgtct gaagctggga    420

aagggaagtt gcaggtcgcg ggaagagccg gcgtggggat tgacaacgtg gatct         475
```

<210>   3834
<211>   424
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220058e10a1

<400>   3834

```
atcctctgct tgtaccaaac ccatcttccc ctctgccttc accgtctcta agtcaaagct     60

ctctcgtcat gttcatgtct ccttcacctc ccccaaaccc atctactacc actacagaaa    120

gctctctcat gcctctcaac gttccttggt ggtcaacagc gttttgaaaa cagttgaccc    180

gacacaaacc tctttgcgga gatccaactc cgaggatgtt gggtctctgg gagaaaagcc    240

caccatcctg gtctccgaga aacttggaga ggcagggctg cacgtgttac gtggcgttgg    300

gcacgtggaa tgcgcgtatg agctctcaca ggaggagcta tgcacgaaga tctcgtgctg    360

tgacgctctg atagtcagga gcgggacgaa ggtgacgagg gacagtgttt gaagctggga    420

aagg                                                                 424
```

<210>   3835
<211>   503
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220058f01a1

<400>   3835

```
aatgcaaaga gatggtttaa gggtggcctt tgaagcttgg aacttctgca atgaagttgg     60

tcaagaagct cctcacatgg gtagtccaag agctgctgat tgttttgatc tttcaggttc    120

tctgactcac aaggtcacag aagctgataa cagacttggg gtgggggact catttcctgg    180

tataaatcca gaaaatatca acaacacaga cctttatgca attgaaaagg aattgtattt    240
```
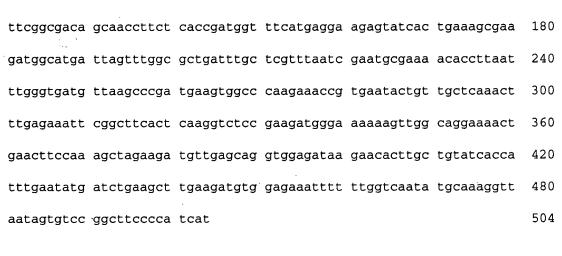
```
gggttctcta tgtgaagttg cagacacccc aagcccctgg cagttttgga tggtaatgct   300

gaaaaatgga aactatgaca ccaggtctgg gttatgtcct caggacggga aaaaggtacc   360

ccctttttagc ccgggaaggt ttccttgttt tggacaaggg tgcatgaacc aacccatctt   420

gtgtcatcaa tggacgcagc ttaaagatgg cacaatgcaa gggggggttca gtggtactta   480

tgatttggat tctggttgtg gag                                           503
```

<210>   3836
<211>   458
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058f01d1

<400>   3836

```
tcatatggaa ggtttcccgt catcactgta tgacgtcctc cttctttggg ggggggggg    60

ggcgagcaga ataagtgttg gaaggcaata ccccacccaa caaacaggaa cagaaacaca   120

aatgcggaaa agagcgtttg aaagcgcagc atcaatggag taacgaagat cggctaaaga   180

ggagcgggct cgaaagatga attacgaatt accttataga gagaagaaca gcgatttgaa   240

ataacagagt aggtagggtg acacaccaga agagtaatta tgaccaagga tgccatacag   300

gaaagacgga ttaatgatga tttgtgcggt tgttatagtt atgcttagga ttacacctac   360

gcgtaggtgg ctttttagttg cacggtgtag ggttgcattt actagggttc aagtttttaat   420

gcattagggt tgcgctgtgt gggcgttggc ggttgggt                           458
```

<210>   3837
<211>   405
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058f02a1

<400>   3837

```
atttctacca aggtgcaatg ttaaagcaaa gcagctaacc cagtgaactt ttccatgagt    60

tactcacaag atgaggacgc gaaaaacaat caacaccttt ctcaccttgg gtataagaat   120

ccttgggttg atgcccaggc tatggatcaa attaaaaaca atccttgcat agacatgtca   180

gagaatgcat ccaacacaca tgaacttgaa gcctctcaat gaagaaagag gttgtcccga   240
```

1572

```
aatctgaggg ctgaagtcaa gtcgatgctt attttttgcc atgctttaga aggcatagta  300

tattggtagc ggcattctga taatgcacta aattcgtgct gtaagattaa ctttctaata  360

tgagtaaaaa tactatgggc cttgcgccca gcttgagtgc tttgt             405
```

```
<210>      3838
<211>      353
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058f03a1

<400>      3838
```

```
ctcattaatt gcaagaatgg ctctccgggg cttggagatg tccctttctg ttctctgcac   60

tcttggtcgc gctagagaaa gccatgccat ggacgaaaat tgtcgggtgc tgttggggca  120

tgcgctccca ttcgaagttc attgcgagat cttctaaaga cctggccctg cgagggtgga  180

aatatgtgac caccctatgc acatagaaga aacacagtac ccgacaacgt tcttttataa  240

agaagacctt catccaggct aacaatgaa agtacaattg aggaagcctt cctttcaacc  300

accatggggt gctggtccat ggttcacgga aatgaaagac actactaaag aag         353
```

```
<210>      3839
<211>      496
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058f04a1

<400>      3839
```

```
gaaaaaaaaa aacccttagc caacacaacc atcatggcca cctctgctat tcagcaatca   60

gcattcactg gtcaaactgc tctgaagcag ctcaatgagt tcgtccgcaa gaccggtggc  120

gccggcaaag gtcgcactaa catgcgccgc accgtcaaga gtgctcctca gagcatttgg  180

tatggccctg accgtcccaa gtacttgggt ccattctcgg agcagattcc atcatacctg  240

accggagaat tccctggtga ctacggatgg gacactgctg gattatcagc tgacccggaa  300

accttcgcca ggaaccggga gctggaggtg attcacagca gatgggcaat gcttggtgcc  360

cttggctgca ccttcccaga gatccttgag aagaatggtg tgaaattcgg cgaggaccgt  420

gtggttcaag gccggtgcac agatcttctc agagggaggg cttgactact tgggcaaccc  480
```

aaacctgatc catgct   496

<210>   3840
<211>   264
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058f05a1

<400>   3840

agacggcgga ggttgcggcg gttgtgctaa cacggcgtga cggcgatctc ttgagataaa   60

tgttggttga aagaggaaga agaagaagag ttgtattgta gaatgagcca accaacggtg   120

atacttgcca ctggaagcta tgatcacact attcgttttt gggaggacaa gagtggtcgt   180

tgtttccgca ccatccaata tcctgagtcg caaggtaacc ggctggagat cacccccgtgt   240

aaacgcttcc tggctgcagc tggc   264

<210>   3841
<211>   451
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220058f06a1

<400>   3841

ctgcacagta gtgtggtacg atgatttgat tttgataaga taggtctgtg ctgtggggaa   60

aattggaagc atcgatcgga aaatgcaatc gttatcgttg agtatgagtc tgaggagtaa   120

tagcttaacg aattttcttt tgctgggttc agagacgaga gtgagaagca gaaggagtgt   180

catcgtagcg tgtgcttcag agggagacag tggcagcagt cagcacaagc tcgtttgtct   240

ctcggaccca aacctacgct ctttttaagc aacaattgcg agtagctgct caatccgagg   300

attacaagga agccgctaga attcgagact cgttgaagct atatgaggac gaggaacctg   360

tttcgcgtct gaggagacta tngaaggaag cagttgctga acaagagatt caggatgctg   420

ctagttatcg tgatgagcca aacaaaattg c   451

<210>   3842
<211>   422
<212>   DNA

<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058f07a1

<400>   3842

cccaaataga tgggctactt ttaacaccat atcatataca agggaccaat tggtgggggct   60

aactccattt tgggggatac gcccgatatg atatgataat tccataattc tcatgcacaa   120

cgagcatcga tcgaactacg gtgtgggaag gaatatctta aactagcgct agatcgtaaa   180

gatttgaaaa gggtgattga gagagaggat taactaggag gagaatggaa gcacgtatga   240

gcactctaat caatgctttc ctcccaccat tagctggtag ctcagggcaa gtaataccac   300

atgaggcgag ggtgtcaggc cttgggactt agagtttaat tttaatttat acagacagca   360

ttataaacat agatgtagat agatatggag ggctatctaa ttctggtgag ttattactgc   420

gc   422

<210>   3843
<211>   465
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058f08a1

<400>   3843

aggactgcaa tgactgcaca gctctggtac gcgatgcacg cctacgaatg ctggtaatgc   60

tgcttgtgcg atacttctat ttccagcgga tccttagaaa acgagcataa gaggattctg   120

aggactctct cgttgcaaca ggcgatgacg cgacaaaatg actattgatc tgcgccgtct   180

cttctatgga tacagcggcg tcggtcgaac acaacgctga cgctgccgct accgtctgga   240

tctccgactg ccctgagtat gagagatcag tgaaccacgc cctttctcac caaaacctat   300

aaactcgagg actagcaagc catcaacaac tttatttcct ggaacgacga ctggtcatag   360

attatagact ggtgccctac cacttgcatc agagaccagc tttctgaagc tttcactcac   420

aatgatgatt ctagcttgca tggccaactg gacacttacg gattc   465

<210>   3844
<211>   378
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058f09a1

<400>   3844

gaaactgaga accccatcta ccacggctgg cagattgatc cctatctccg tgtcaggcaa   60

atactaacac tggctttcct gtgttggttg gcacaaaact ttactgaagc atgacagtac   120

ttccacactt ggagagaccg acgcacagcg catggcagca accacgcacg gcaccctgcg   180

ggcgcgtggt ttattctgtc accatcctga tcatctagca agagggccct tgaaaatgga   240

gcagcgcatc ccatggcggt tagtgattca acaaccccgg gatgctccaa aacacatact   300

ctctgtggga ctcatagccc aggtcgacag agtcatcacc gtggcccaga ttgaggatcg   360

gatgcttgac aaagtttc   378

<210>   3845
<211>   308
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058f10a1

<400>   3845

aatgattatg gctactctcc ttactggtcg tagtacgctc accctacgcg ctactataga   60

gagaatggag gagcatcccg cacattgtcc gcgcataatg gaagtggagc tgacgatggt   120

acgtactcac tattatttgc acgacagaca ttggattgtc gatgcctgac ctagcaccgt   180

ctacaggcat tgacagggct atggattaga tctaccctgc tgaggctcag ctcttgcaag   240

actaacacat tacttccact gtagtcgtga cagatgggta tgcgcaccac tatagaacac   300

cagatatg   308

<210>   3846
<211>   504
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058g01a1

<400>   3846

gtactttgca aaaaccctaa accctctctt tctctctccg cgactctgta ctcatcaatg   60

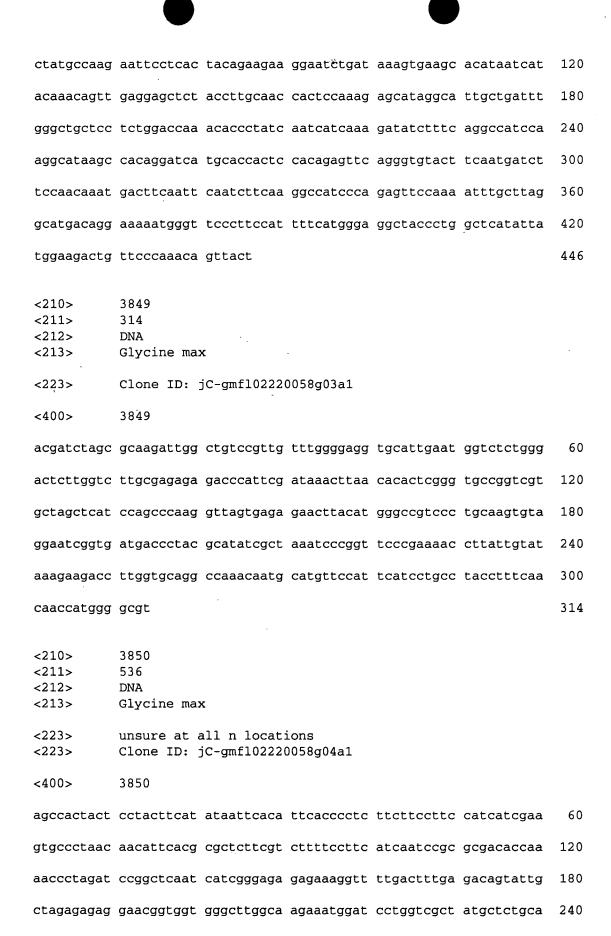gcgacgcaat cgttagacga agaaacaact aagaaagtca tacgacaggt cgagttttat   120

ttcggcgaca gcaaccttct caccgatggt ttcatgagga agagtatcac tgaaagcgaa   180

gatggcatga ttagtttggc gctgatttgc tcgtttaatc gaatgcgaaa acaccttaat   240

ttgggtgatg ttaagcccga tgaagtggcc caagaaaccg tgaatactgt tgctcaaact   300

ttgagaaatt cggcttcact caaggtctcc gaagatggga aaaaagttgg caggaaaact   360

gaacttccaa agctagaaga tgttgagcag gtggagataa gaacacttgc tgtatcacca   420

tttgaatatg atctgaagct tgaagatgtg gagaaatttt ttggtcaata tgcaaaggtt   480

aatagtgtcc ggcttcccca tcat   504

<210>   3847
<211>   481
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058g01d1

<400>   3847

gctgcttcca ggaaggtttc ccgtcatcac tgtatgacgt ccaccatctt tggggggggg   60

gggggggggg gggcaaaaga agaaagttaa cttaataaat aggggaaaag ccgatactga   120

atgtgacaac catagggttg aaagcgcgca tttttatcta ggaaggggga gatgatagag   180

agctagtttg tcacgatgcg tggccagagc ccgggcatga cgtgcatggg ctttagacgt   240

gagcgcgtac cgatgaaatg gaaaaacatg caaaagtag aaattatagg ggcaggaaat   300

gcgccgcgta accccccac acccacaccg attaatcctt gtaaggtgaa atagtagcaa   360

gttgatgttt tcgtggcaat tagtggtagt agtagcctag gtagaacatc aatttattag   420

ctctgcgtaa agttaggttt ctcactgtag tagtttggca aaggtgtaat acgggtagtg   480

g   481

<210>   3848
<211>   446
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058g02a1

<400>   3848

gaaaaaaaaa atggatgtag agaaagcctt ccacatgact ggaggagttg gcaaaactag   60

1577

```
ctatgccaag aattcctcac tacagaagaa ggaatctgat aaagtgaagc acataatcat    120

acaaacagtt gaggagctct accttgcaac cactccaaag agcataggca ttgctgattt    180

gggctgctcc tctggaccaa acaccctatc aatcatcaaa gatatctttc aggccatcca    240

aggcataagc cacaggatca tgcaccactc cacagagttc agggtgtact tcaatgatct    300

tccaacaaat gacttcaatt caatcttcaa ggccatccca gagttccaaa atttgcttag    360

gcatgacagg aaaaatgggt tcccttccat tttcatggga ggctaccctg gctcatatta    420

tggaagactg ttcccaaaca gttact                                          446


<210>      3849
<211>      314
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058g03a1

<400>      3849

acgatctagc gcaagattgg ctgtccgttg tttggggagg tgcattgaat ggtctctggg     60

actcttggtc ttgcgagaga gacccattcg ataaacttaa cacactcggg tgccggtcgt    120

gctagctcat ccagcccaag gttagtgaga gaacttacat gggccgtccc tgcaagtgta    180

ggaatcggtg atgaccctac gcatatcgct aaatcccggt tcccgaaaac cttattgtat    240

aaagaagacc ttggtgcagg ccaaacaatg catgttccat tcatcctgcc tacctttcaa    300

caaccatggg gcgt                                                       314


<210>      3850
<211>      536
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220058g04a1

<400>      3850

agccactact cctacttcat ataattcaca ttcacccctc ttcttccttc catcatcgaa     60

gtgccctaac aacattcacg cgctcttcgt cttttccttc atcaatccgc gcgacaccaa    120

aaccctagat ccggctcaat catcgggaga gagaaaggtt ttgactttga gacagtattg    180

ctagagagag gaacggtggt gggcttggca agaaatggat cctggtcgct atgctctgca    240
```

```
tcaaggctgg gataataaca gcgctcttga gggatacggt gccgtccacg accccaactt   300

ccgggttggt ggttcctatg acgagcgaag gtttatagat gaaagatatc caagggatgc   360

tgtttaccag agaaataatt tccaccgtga cattttggat agggaggcct atctgccacc   420

tggacctcct gttggccact ggagtcaagc caaacggaga ggttatgatg aagattatgc   480

acttgacagg gaatctagac gttntcagag ccctatcat gaatcgtata atcaga       536


<210>      3851
<211>      337
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058g05a1

<400>      3851

ggcacgtgta gttgagtact aggccgccgt tacacgctac tggtgtccgc cgtcaccgca    60

tgaatcaccc accgtgtctt agccgcagtt ttttacctttt acctctaatt gtcccttacc   120

ttccttggcg ctgaaatgga gagtggtccg aacatcacat ccctggcacg tgacggtgcc   180

gctaagccca ccctcctcat atgcagactc tctctcaaat gctgagctac gtcctcttcc   240

tccacactct tgacaacgc ccaggagcct ctaagctcca tcagagaaga gaacgaccac    300

cctctgttcc tgtgtgtatc atgccaccag ctcactc                           337


<210>      3852
<211>      255
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058g06a1

<400>      3852

ggaccaacaa tgccatctgt tttaatgttt tatccttatg atcataatac tggttgtggt    60

tcaccagcag agcagcttga gtttgggact ttgggaccaa tggggttctc aggtgtcaat   120

gagctgtcac aggcatatga gggaactcaa tctactggag cacatgaaga tcaaaggttt   180

cgtggtggtc acagacaacg atcttccaca gatcaaccct actaacctaa tgttttaagg   240

ggtccctgat tctgc                                                   255
```
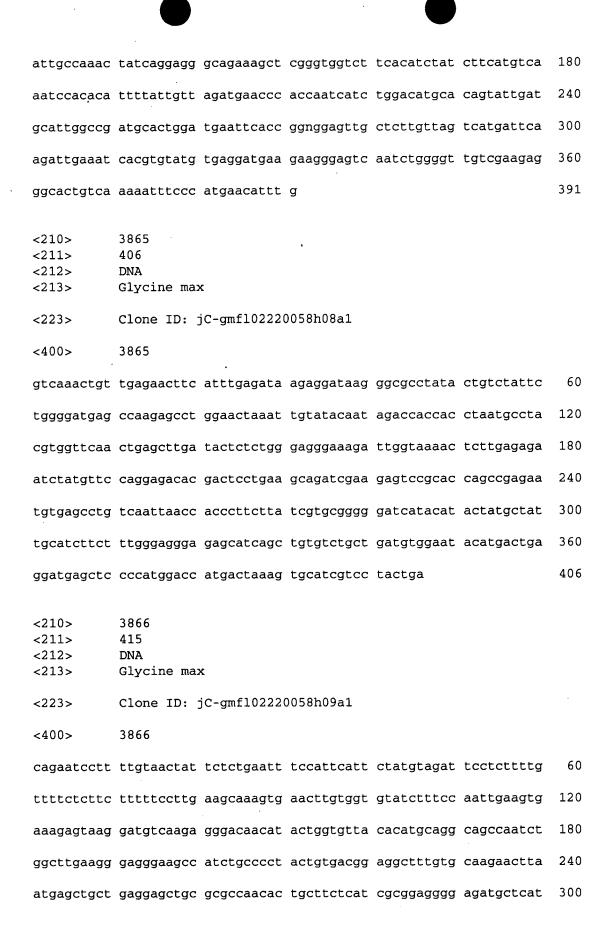
<210>   3853
<211>   222
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058g07a1

<400>   3853

ctctttctgt cagcctgatg tttgcagcag aacctcctca aagcaccata acggtgggga   60

taggtccagt cgcggggcaa cacccccaac gcgtagaaat acacattgat ctgctgctcc   120

tagctcatgg gtataccgta ggtggggggaa cagaacggtg agtatgctgt taaggcgtct   180

gactccgtct gggggggagtg acagcgacga catcgcagac tc   222

<210>   3854
<211>   152
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058g08a1

<400>   3854

cgaaactact gtatgaggcg tccgctcagc agaagcgaga aagagggggtg tggataatca   60

tcttcttgca ctggcgccga agtcactgga gggatcgatg gcactggcac tccctgctat   120

tgatacaggg gcatctagcg ggattggtgc tg   152

<210>   3855
<211>   512
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058g09a1

<400>   3855

tgaaaaaaaa aaacccaacc aacctcagct tcttgattgc tcattttctc cgtgcttggt   60

aaattaaaca catcggatcc ctcttttgct ggacataaaa gaattcggtc gaaagaaaga   120

cttcacacac tcacatagat tgtcacacat tgcattgtag aaacaacaca aggaaccatt   180

ttgttgcata gctaatcaag ttaattacta gataatagag agaaaagggc agggaaaaag   240

aagcctcaca tagcattggg gtgagtgaag caccaacaag cggcgttaca aaaaccctca   300

gacgatgctg gctgggtgtt ctagttcgac attgttgtca ccgaggcaca gattgaggag   360

1580

```
cgaagcatca gcacagcttg agcctgccac tttcagctac cttctttcat gagcacgcac     420

agattggacc tgccatgcac caccaccacc ttcactcgca tcaacagaga caccagctct     480

tcacgctctg ttctttcagt ggatcagaaa cc                                   512
```

<210>   3856
<211>   491
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058g10a1

<400>   3856

```
aaaaaaaaaa acccaaccaa ttatcagctt cttgattgtt cattttctcc gtgtttgtta      60

aattaaattc atcggattcc tcttttgttg gacataaaag aattcgttag aaagaaagtt     120

ttcacacact cacatagatc gtcacacatt gcattttaga aacaacacaa ggaaccattt     180

tgttgcatag ttaatcaagt taattactag ataatagaga gaaaagggac gggaaaaaga     240

agcagcacat atcattgggg tgagtgaagc agcagcaagc ggcgttacaa aaaccctcag     300

acgatgttgg ctgggtgttc tagttcgaca ttgctgtcac cgaggcacag attgaggagc     360

gaagcatcag cacagtttca agcctgccac ttccagctac cttcttccat gagcacgcat     420

agattggacc tgccatgcac caccaccacc ttcactcgca acaacaaaga caccacctat     480

tcacgctctg t                                                         491
```

<210>   3857
<211>   391
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058h01a1

<400>   3857

```
gttcattcca gcttgtgtaa gatttgcctg gctttattgg cgtgctattg ctccgaatag      60

ttgatgcata agatataatg agactgaccg acatgaatgc tcaagcctgt caacatccat     120

gatacgcaaa gtaatctgaa gacgattgaa gtaggatact gtccggagac ctgtcaatga     180

actatattct agttaataga aagctacttt cttcgattag aagcactgga ggtcactcgc     240

tgttatacct taatcggact attgtatggg agaacctgaa tcatatatgc ggctcctgac     300
```

ttggggaatt ttgggcacat ctgcagagca tgtaattgaa tagatgagag cacatggcta 360

cttcgcgtaa ggatcttatc ctatcacact a   391

<210>   3858
<211>   521
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058h01d1

<400>   3858

gctgcttcca ggaaggtttc ccgtcatcac tgtatgacgt cctccttctt tggggggggg   60

gggggcgac taaagttcaa tactggggtg aaagataacg ccaaagatgg aaaaggcgaa   120

agaccaaaac gggagatcat gaataaccat gtggcattaa caaggagcgg tagtgcggca   180

ccaaagtacc ttgtgggttc agagcgagtt gtgattaaac ggttaccggc gatcaacgtg   240

ctgacatttg tgataacgtt aaaggtaccg gttaagttac ctatgtgtgg gctgggtgta   300

atgcagctgt gcattcaagg ttgcctggat cgatgtacgt agcgtcatcg tagactgtgg   360

tgagacgcgt attgaaaggt aaggtatgcc ttcgtcgggg ataatcgtcg catgcccaaa   420

atttccatcg gatttaatgg aagtcttggc tactataggt tttgggtctt cgtgcctcga   480

agactcaaca ccgtttctat tcagatcttt ggtttaatac g   521

<210>   3859
<211>   241
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058h02a1

<400>   3859

ctcacgaatg gttgacatta tgttgacgca ggtcacaaga ttggagtgga tgcgggtttt   60

ttaccaggcg atgttcataa gaacattgat gacggtcaaa cgaagattac ttcttgggct   120

gcagaccttt cccgccagac taacgagtat ccagagacag gtggaggtgt catatatgca   180

atgcgactgg ctctggatat tgatgctgct gctatgctct ttcttgcatg tatcggattc   240

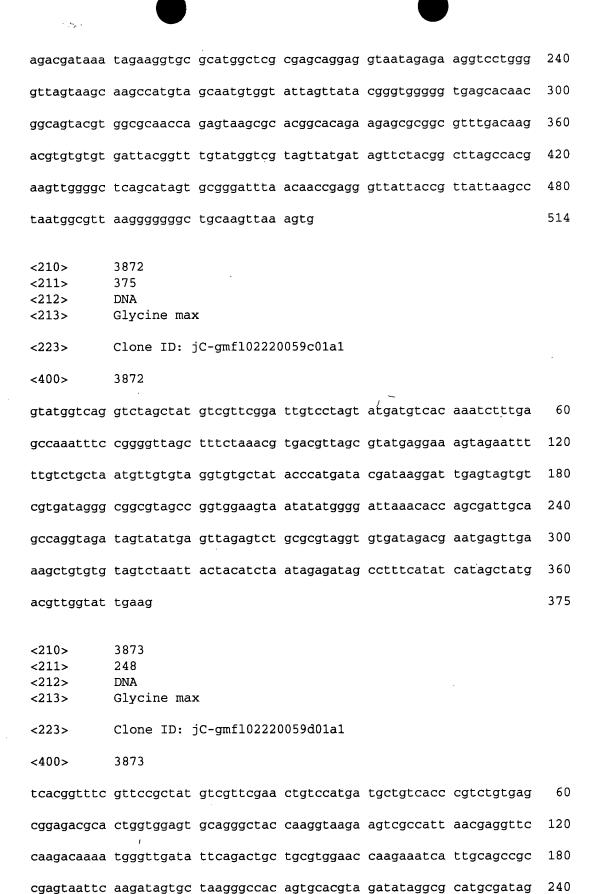t   241

1582

```
<210>      3860
<211>      288
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058h03a1

<400>      3860

tggtaaagct gctcaaggaa aaaaataaat tgatgaatca aacgccttcc acataactgg    60

aggaggagga taagtaacta tgcctagaac tccctactac agaagaaggc atctgctcaa   120

gagtggcacg tgaacataca cacatgaggg ggagctctac cttgcaacca ctccaaagag   180

cgtacgcttt gatgatttgt gctgctgctg tggaccacac accctatgga tcatcaaaga   240

tatcttccac gccatctaag gtataagaca caggatcatg caccactt                288


<210>      3861
<211>      364
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058h04a1

<400>      3861

taggagggggg gcggtgattg tgttgtgtgc tttagaggat gaaagatttc aattcggatc    60

tattcgaccc gggaacggcg atggactctt cctccttcga ttactctcgc agtgcttcct   120

cttccgacgc cgatttgggg ttcgctttca atgacagtaa tttctccgac aggatcctcc   180

gaatcgagat catggggggac cccggcgagg cccgacccga ttacgacggt tgcaccacta   240

tctgcgactg ggcttgccac cgcaagagga ggcgcgagga tatcaagaag gataacgatg   300

gtgatcttac tttattggct gacgagcaaa ttttgaacgg gaatcagcct gatatggatg   360

attt                                                                364


<210>      3862
<211>      452
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058h05a1

<400>      3862

attagaagta acaaaagacc ctccctctca aagaataaa caagtataaa aaagaaggca    60
```

```
cttccctcaa acagaaacta ccctctatct ctctcttttc aagccttaaa tgagtaaaaa    120

agagtgaaga aaggaaagaa aggagcacca tttttggttt gagaaacata attagcaaga    180

gagttcaaaa tggggaagag agagtttaat ggggtggtgc tgatgatgct gtgtctgtgg    240

gtactgtggt gtcacagcct ctgtgactta tgaccacaaa gccattgtgg ttgatggcaa    300

gagaagaatt ctgatctctg gctccattca ttatcctaga agcacacctc aaatgtggcc    360

agaccttatt caaaaggcca aagatggagg ccttgatgtc attcacacct atgtgttgtg    420

gaatggccat gaaccttctc ctgacaatac ta                                  452
```

```
<210>      3863
<211>      379
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220058h06a1

<400>      3863
```

```
ctcattaatt gcaagaatgg cacttcgttg cttggtgatg tccctttctg ttctcttcac     60

tcttggtctt gcgagagaaa gccatgccag agacgaagat ttttggcatg ctgtttggcc    120

aaacactccc attccaagtt cattgcgaga tcttctaaag cctggccctg caagtgttga    180

aatcgatgat caccctatgc aaattgaaga acacagtac ccgaaaacct tcttctataa    240

agaagacctt catccaggca aaacaatgaa agtacaattc agcaagcctc cctttcaaca    300

accatggggt gttggtacat ggctcaagga aattaaagac actactaaag aaggatatag    360

ttttgaagag ctatgcatc                                                  379
```

```
<210>      3864
<211>      391
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220058h07a1

<400>      3864
```

```
gaaacagctg tgcagtatct tctgcgtctc catccagatc aggagggact tagcaagcag     60

gaggctgtcc gtgcaaaact tggtcagttt gggctaccaa gacataacca tcttactcct    120
```

```
attgccaaac tatcaggagg gcagaaagct cgggtggtct tcacatctat cttcatgtca   180

aatccacaca ttttattgtt agatgaaccc accaatcatc tggacatgca cagtattgat   240

gcattggccg atgcactgga tgaattcacc ggnggagttg ctcttgttag tcatgattca   300

agattgaaat cacgtgtatg tgaggatgaa gaagggagtc aatctggggt tgtcgaagag   360

ggcactgtca aaaatttccc atgaacattt g                                  391
```

<210>   3865
<211>   406
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058h08a1

<400>   3865

```
gtcaaactgt tgagaacttc atttgagata agaggataag ggcgcctata ctgtctattc    60

tggggatgag ccaagagcct ggaactaaat tgtatacaat agaccaccac ctaatgccta   120

cgtggttcaa ctgagcttga tactctctgg gagggaaaga ttggtaaaac tcttgagaga   180

atctatgttc caggagacac gactcctgaa gcagatcgaa gagtccgcac cagccgagaa   240

tgtgagcctg tcaattaacc acccttctta tcgtgcgggg gatcatacat actatgctat   300

tgcatcttct ttgggaggga gagcatcagc tgtgtctgct gatgtggaat acatgactga   360

ggatgagctc cccatggacc atgactaaag tgcatcgtcc tactga               406
```

<210>   3866
<211>   415
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220058h09a1

<400>   3866

```
cagaatcctt ttgtaactat tctctgaatt tccattcatt ctatgtagat tcctcttttg    60

ttttctcttc tttttccttg aagcaaagtg aacttgtggt gtatctttcc aattgaagtg   120

aaagagtaag gatgtcaaga gggacaacat actggtgtta cacatgcagg cagccaatct   180

ggcttgaagg gagggaagcc atctgcccct actgtgacgg aggctttgtg caagaactta   240

atgagctgct gaggagctgc gcgccaacac tgcttctcat cgcggagggg agatgctcat   300
```

```
caaatgcctg acattatgga tgctgtaaga gctgatatgg agcaaagatg ttctgagacg    360

aggatcctgg ttagagatgc tggtgactac tttatgaggc agataatggc tggaa          415


<210>    3867
<211>    491
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220058h10a1

<400>    3867

gatttacaga gacacctctc actacaactg ctgtactaca ctatgcaact ctttttcctc     60

tgcattggga cccgtgcctg ctcccctgt tgataaatat gactttgact ggtccatgaa    120

gcaagctaaa aacctacaga tggaatctga cagcaaatgc tgctaggcct aacccacaag    180

ggtcattcca ttatgggaag attactccta caaaagtaat taagttggcc aattcagcac    240

ctttgatcaa tggaaagctc cgttatgctg ttaacagtgt ctcctatgtt aaccctgaca    300

cccctctcaa gcttgctgat tactttaaca ttcccggaat cttgagtgtg aatttactcc    360

aaaactctgc ctcaaatggt ccaggataca taggcacctc agtgttgcaa acttctctcc    420

atgattgtat tgaggttatt ttccagaaca acgaaaacac catgcaatct ggcatcttg     480

atggttatga t                                                        491


<210>    3868
<211>    343
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220059a01a1

<400>    3868

gtatgattat gtctagctat ctcgatcgaa ctgtccaagg tgctgtcaca ttacctctat     60

cggatataaa tgagtagcct tatctaatac tctgcttatt gcgttgggag ccccatctcg    120

gtctactgat gttcactcgc tcacctattt tcaatctggt ctacaaaaac tgtgctttta    180

aaacttgtac ccagtccttc catattcatc attttgggcg agttcctctt aatgtttaag    240

attgcaccca gtgcgtcaca tgtccagcag ttgggcctga ccaactttcc acgattctag    300

acactgcatg tcgcattcaa ttgctcacaa tgcctgccca tag                      343
```

<210>   3869
<211>   333
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220059a01d1

<400>   3869

catgctatcc ataggaagga ttatcccgat gcatcagctg ctatggacgc tccatccagt   60

gctttggcgg gtggggtggg gggggagggg gcgggcgggg aggggggcgg ggggggtagaa   120

cccagatata caagaacggg cgatgcctag agacagggag gccccttccg gaggacttga   180

acaatttcgt gggcagggag ggggggcctg ggggggcaagg gaaaggcgag atcccggaac   240

aggaccaagc ggcgcccccc tataaaaatg aggggatggg gcctagtgat taggattgtt   300

taaacccccct gtgtgaggcc aaccaaaagt gaa   333

<210>   3870
<211>   137
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220059b01a1

<400>   3870

tgagtatggt ctagctatct cgatcgaact gtccaaggtc ctgtcaccta accgcattag   60

gtgccaatct gaacaaacgt ggcttgagcg taagccataa ttacgtcaat atcagaggta   120

ccgtataacg gaaatac   137

<210>   3871
<211>   514
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220059b01d1

<400>   3871

gtgcttccaa ggaaggtttc ccgtcatcac tgtatgacgt cctccttctt tgggggggggg   60

ggggggacaa ttagagggg gagggaggga ggctcgaact gctgcgctga aggcggggggg   120

tgttggcaag ggcagaaaag aaggaggcag gtggatacgc gataacgtac aacggagggg   180

agacgataaa tagaaggtgc gcatggctcg cgagcaggag gtaatagaga aggtcctggg   240

gttagtaagc aagccatgta gcaatgtggt attagttata cgggtggggg tgagcacaac   300

ggcagtacgt ggcgcaacca gagtaagcgc acggcacaga agagcgcggc gtttgacaag   360

acgtgtgtgt gattacggtt tgtatggtcg tagttatgat agttctacgg cttagccacg   420

aagttggggc tcagcatagt gcgggattta acaaccgagg gttattaccg ttattaagcc   480

taatggcgtt aagggggggc tgcaagttaa agtg   514

<210>   3872
<211>   375
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220059c01a1

<400>   3872

gtatggtcag gtctagctat gtcgttcgga ttgtcctagt atgatgtcac aaatctttga   60

gccaaatttc cggggttagc tttctaaacg tgacgttagc gtatgaggaa agtagaattt   120

ttgtctgcta atgttgtgta ggtgtgctat acccatgata cgataaggat tgagtagtgt   180

cgtgataggg cggcgtagcc ggtggaagta atatatgggg attaaacacc agcgattgca   240

gccaggtaga tagtatatga gttagagtct gcgcgtaggt gtgatagacg aatgagttga   300

aagctgtgtg tagtctaatt actacatcta atagagatag cctttcatat catagctatg   360

acgttggtat tgaag   375

<210>   3873
<211>   248
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220059d01a1

<400>   3873

tcacggtttc gttccgctat gtcgttcgaa ctgtccatga tgctgtcacc cgtctgtgag   60

cggagacgca ctggtggagt gcagggctac caaggtaaga agtcgccatt aacgaggttc   120

caagacaaaa tgggttgata ttcagactgc tgcgtggaac caagaaatca ttgcagccgc   180

cgagtaattc aagatagtgc taagggccac agtgcacgta gatataggcg catgcgatag   240

1588

ccctagtt   248

<210>   3874
<211>   270
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220059e01a1

<400>   3874

gtacatggtt atgttcagct atgtcgatcg aactgtccat aggtgctgtc accacttcgt   60

tgggtgcccg aacaggtcct gcatccaagt agcccagttg agcatgcctg caccaatgac   120

ccagtttaag gcaggagaga catatacggg tattaagcgg gacttttaag cagtttctaa   180

gattggggtt gcatgttcag ctgtgcgctt agggctacat ggggatttcg atttggcaaa   240

gaggtagggc ttagcacggt ctcgattaga   270

<210>   3875
<211>   431
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220059e01d1

<400>   3875

gctgcttcct agaaggtttc ccgtcatcac tgtatgacgt ccaccttctt tggggtcgtt   60

gggggggggc gtaaatagag acctattggg gaggtataaa tgcaggaact agaaaaggta   120

gtagtctaga gttaataggc agatagtatt acaaagacag ctgaagagag agcgcgatag   180

tatgcgtgca acagaaggct taagcaggga ttggataatg tgggtcgcaa caattggcgc   240

agaaaggtag ccaattctaa gggttgagaa acactgctgt cagttcaagg tttcgtggat   300

cgatctacgt agattatcgt agattgtgga gagacacata ttgaaccgta aggctatgcc   360

tttagtctgg gatactcgtc gcatgcccaa aatttcctcc gtatttaatg gaagtcttgg   420

ctaatatagg t   431

<210>   3876
<211>   368
<212>   DNA
<213>   Glycine max

<223>　　　　Clone ID: jC-gmfl02220059f01a1

<400>　　　　3876

atcgagttat ggtctagcta tgtcgatcga actgtccaag gtgctgtcac cgcagataaa　　60

gccgccgcag ccaccagccc gggaacacag cacgagccat caatgaataa cactgccaat　　120

aagggtaggc ggtgatagcg ctctaggagg aacgtcaagg aacagtagta gtatagagga　　180

aggcgttctt ataatggagg tagcttttag gggacaatac tagggtagag tatactgggg　　240

aacctcatcg agattacttt tatccggtag tacagagcga tggccgtatg gctggtatat　　300

ggaaagacgg tgtgcggttt taggtgctga cggtatcatt aaaattatga tcgggaatgt　　360

tgttttag　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　368

<210>　　　　3877
<211>　　　　551
<212>　　　　DNA
<213>　　　　Glycine max

<223>　　　　Clone ID: jC-gmfl02220059f01d1

<400>　　　　3877

gcatcttcca tggaaggttt cccgtcatca ctgtatgacg tcctccttct ttggggggggg　　60

ggggggggca gataagaagc caaagagagg agcggtggcg atgggctacc aactgctaaa　　120

gagaggaaag cagcacaagc tctctggctg ggctttggta agcatgagaa aacgattttta　　180

aaacgactat aacgcgacag ggctggcaaa ggtggcaaag cataaaaacg gtaccctgtg　　240

tgtagtttga gaggaccatt aaaacaagtg ggggcgcagg ggggtgggaa taagcgcggt　　300

agtactagcg tataactgga gcgtaagttc ggcgaaccgg agagcgttat tagagtggaa　　360

acccatgaaa tcaaagatat gtgcaccgac cgtaggccac catgggcaag gctaacaagt　　420

cctgggtgtg gggctgaatg tggcgctgtg ggtaagcttt ttataatgtg gcattaaagg　　480

cagcctggtt gtaacccaat taattgtatg caaggtacat gtcagcagag tttgtaaggg　　540

ctcggtgggt g　　　　　　　　　　　　　　　　　　　　　　　　　　　　551

<210>　　　　3878
<211>　　　　153
<212>　　　　DNA
<213>　　　　Glycine max

<223>   Clone ID: jC-gmfl02220059g01a1

<400>   3878

catagagata tcgtctagct atctcgatcg aactgtccaa ggtgctgtca cctacgattg   60

gaccagaatc atgaatacct agggaagtta atagtggtat tcagatgagt agactagcca   120

gaacgaggta aattggctga agtaagaatc tag   153

<210>   3879
<211>   511
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220059g01d1

<400>   3879

atcctggaag gtttccgtca tcactgtatg acgtcctcct tctttggggg ggggtgggg   60

ggagacgcta gagatgaaac caaccagtgc aggcaataag gcgttaagaa gaccaataaa   120

aataaagcaa aacaagggat gcgtagtaag gtacgtaatg gagggaataa tataggggga   180

gtagagaaaa tcaccatatt cgaggggtgg gtattacgtt attggctaat aggtacaagt   240

agggttgcgc gataaggcaa ccattanttg tagtagatgt agttggggta agttatagtg   300

cggccaacgc gtggacacaa gttaacagac agttattaag ttacatatgc ggatgggtgt   360

gtaccgccag taattattgg aagtggtacg tgatgccccg ttacgtgcac agggttgcat   420

gtaggtgcgt actcagattg cccaatagcc gacagttatt atgcacaata agcgggttag   480

ataacgttgg ttgaagcgtc atagtatatg g   511

<210>   3880
<211>   537
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220059h01a1

<400>   3880

gtaatggtca tcgtctagct atctcgatcg aactgtccaa ggtgctgtca ccttacaaac   60

aaacaaacaa ccaaagccgg agtataattg gtaatccaat tcctcggcca gggcggggtc   120

ctagaccggc gtgcgggtcc gagaccagcc ccggggtcca ccgtgcgcat tggaggggat   180

1591

caattcgggg acataggtg agattggagc taagggaagg gtacgatcta aggagcagtt 240

gtcatgtatg cagtggacaa ggcacgtggg ggttttgcga gcgggatggg taagtggggg 300

aagtgcgcat aagtagggag gagttaaggg acggctagat ggttaagggt gggggggatgg 360

gagccgtgaa gcagaagtgg cggtcggtta cagcaaggtc ggacatagcg tgcgtagaag 420

gcaggcgcga gcgtgagggc ctaaggaggc acgtgccaga agacacagga cacaccgaca 480

cctcaaagcc acgcacgatc aaagcgggga agtggtatgt ggatgggtgg acgagac 537

<210>   3881
<211>   531
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220059h01d1

<400>   3881

gctgcttcca ggaaggtttc ccgtcatcac tgtatgacgt cctccttctt tgggggggg 60

gggggggggg ctgttagtag aagtagtatg ggtgatacga gaaaaaacta tagttattag 120

aaagacctat ctgtacggtt tagtagtcga aataggggta gcatcaaacg tgaaaagact 180

atgttattaa cagcgagccg atgcaggtaa gcattaggaa aaaaaaatgc ggaaagagtc 240

gagacatgtg caacgttaga gaatgcaagg gggaggcgcg ttataacggg ttggggccta 300

ccagagggca gcgagaatgc aacgatttgt cacacggagt aacaaacaat acgttgcatg 360

tgggggggtaa taggaaatgc gatcgttata acgttgcgga agattagtac gaaggcgggg 420

atttgtgggt atcccgttaa tatttccccg aggattacgg acgagcatag tgttggtaaa 480

taagcgtagc atacactgga tcgactgaag tacaaaccgc agtggaaaga g 531

<210>   3882
<211>   483
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060a01a1

<400>   3882

gtaatgatca tcgtctagct atctcgatcg aactgtccaa ggtcctgtca cttggttgtg 60

tttcggtgtg tgttattgtt tttgtgttgt ttgtttgtgt tctctgtgtt ggttgttctt 120

1592

```
ctagtgttcg gcttcttaat tttgtttgtt attctctttg ttgtttttaat gtgtttgttt    180

gttctctttg tgttatatgt cttatgattg ttgtttgtaa tcattttatt ttgaatgccg    240

ttaattcgtt tttcaacaaa ttagtggctg tcatcatgct cagggtcaat atccgtgtcg    300

tcgtagccac aactttcacc cagattttat atgtcagcat agtagtcagc gtgatagtaa    360

aataggcctt aacagtagtc caacgcaaca ccacgtcaca agcaacagag aggtccgtgt    420

catgccgtat gatgggctcg accccatgtg gcacgtcaac actgggtgga taacaggaaa    480

caa                                                                  483
```

```
<210>      3883
<211>      545
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060a01d1

<400>      3883
```

```
gctgcttcca ggaaggtttc ccgtcatcac tgtatgacgt cctccttctt tggggggggg     60

gggggggggg ggggggggg gggctataat agctaccggt aggaaaaaag acccacgaat    120

atcgaaccat gaagacaagg tgaagcgttg gccacaaata gacctagaac atgtgcgtgg    180

gtggcccgta tataggtggc tcggaggtga taggccatga ccaaacaagt ggtaccgcga    240

gtgtatttta caagagcccg ggtttattac cgccggttgt ttagagtttg ctggcctata    300

gtgtgatgcc caataggcgg tcattagttg caaggggcgc gaaatttgtt tagcggtgcc    360

ggcgagccgc catttgttta gcggtttgcg tcgacggagg tgcaccgtat attattattc    420

ccattagcgt tattattgct aggaccaccc gaattgttgc tcctcggcca caacaagagt    480

tccgcgaggc cacccctaga cttggtagcg tgtctaccct agaattcgta ggctgctcac    540

cgatt                                                                545
```

```
<210>      3884
<211>      450
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220060a09a1
```

<400>   3884

atcacatctt atccagacaa aacaactgtt atggataggt atcagagggt agagaagccc   60

aaggcagaga gccctataaa cgagaacgag atacgcgtta cttctcaagg aaggacgagg   120

aattacatca cctacgccac cactctcctt caggagaaag gatctagtga aattgttctc   180

aaagcaatgg gacgtgcaat aaataagact gtaatgattg ctgaactgat caagagaagg   240

attgttggtc tgcatcaaaa cacccaaatt ggatcaactg atataactga cacatgggaa   300

ccactagaag aaggccttct ttctttggag actactcgcc atgtntcaat gatcacaatt   360

accttgtcaa agaaagaatt ggatacgtca tccacaggat accaaccttc tctttcagtt   420

gatcaagtag aaccttaatg aatatgatga   450

<210>   3885
<211>   516
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060a09d1

<400>   3885

aaatcaaact tagcttactg caacaattcc tattaaaaaa ttttacaatt gtgatttta   60

cgagtcttta aacaaagaaa acatatctaa cttaacctac ccaacgtagc aaaattatac   120

aggttacagg gggtaaacac tacatcaaaa ctgcagaaac atggctgcaa cactgaacgc   180

ttcaaataat accaaaaata caagtaaatc tcacaagaa ctaaacagag aggcaacatc   240

taacttaaca tatacatgat aagcaacaaa cacttgatca agcagctggt acctggtccc   300

ttccccggcc acggcctcgg cctcttcccc ttccacggcc acggccacgt ggtggaggtg   360

gagcatcata ttcaccatag tcatagtaac caactggctg cacaccatag cctcgtcctc   420

gtcctcgtcc ccgaaaagca tgcccccttg cacgaccacg ccctcttcac catagccacg   480

ttcaccatcc caaccatcac catattccat accca   516

<210>   3886
<211>   448
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060a10d1

1594

<400> 3886

caataaagaa tagtttgtaa cttcggaaaa agagaatcta gtttattttc ttacatagaa   60

tcctcatata tgtgtgaata acacatacat tttttctata gatacattcg aaatctttga   120

ttagtgctcg agccggatga tgaaaaatta tcatatccgg ttctttcgga ggatggatct   180

ataagaattc acctatccca ataacaaaaa aacctgactt gaatgatcct gtattaagag   240

·ctaaattggc taagggaatg ggtcataatt attatggaga acctgcatgg cccaacgatc   300

ttttatatat ttttccagta gtaattctag gtactattgc ctgtaacgta ggcttagcgg   360

ttctagaacc atccatgatt ggggaacccg cggatccatt tgcaactcct ttggaaatat   420

tacccgaatg gtatttcttt cccgtatt   448

<210>   3887
<211>   577
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060a11a1

<400>   3887

cggctcgaga gatgatgaga tgcatccgca gtgcttctta acatatatta tttgaatttt   60

gattatgttt tcttgagttt aaatcttgtc tatcaataat tgaaatcatc ttaagtatta   120

attttcaaat gattattaca aaataaaaat tcttattaac aatcaccata taattcttcc   180

attacgcact ctaagtctct aattaaattc tattaaagag ttatacagtc acgaaacttg   240

tgctgttttt tttgacaaac aacttatttg ttagttgctg cccaaaatct tcagtagcag   300

tagtactggg tgaattctac tttataaccc tgaaaaaatg aaggagctaa gtacatcatc   360

atgatgttaa agttagttga tggtgttgtg taattggaga ataacgagg cagtgtccca   420

tttaatttca ggaaaaaatt ccagtagagg aagtgtttga gtcgctgaaa tgttcaagag   480

cacgtttaac atcagacgaa ggagccagtc ggcttcaagt ttttggacca tacaaattgg   540

aagagaaaaa ggagagccaa cttttgagtt tctgggt   577

<210>   3888
<211>   599
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060a11d1

<400>   3888

```
gagccttaaa gtgacctaga tatcattaac attctcaaaa caagacgaaa agtaaatcct    60

atcaaccacg ttatttggta tggaatagaa gagtaaacca ttcagatttt gactgacaaa   120

aggaccttca tcctaatcta aagacggatt aacttaggtc ttcattacat ttgttgttct   180

tgttcttgga taagcaccaa agtgtgttct gcttgaaggt tgtccaaatt ccttaaactg   240

tataatgctg ttggattgta tcaatgtcaa gtcccttcag cttcactact gattcaacat   300

gtcctttcag agtatgaagc tccctgagcc ttgcaacctc ggcacgtctc ttagcttgct   360

cagcaatctc tgaaagctcc ctgtaactgt tcttgtcatt gaaaaggttg gttgtttcag   420

gtggctgaag accatgaaga gtcctctgag cagttgccca ctgtgcttct ctctcttctt   480

tgccatagtc tttctttgta gtgaaggcag tcttgttctc caaaagatta tcccaagcct   540

tcccacttca gacgtatcgg attgcaaatt gagatatcaa gagggattat gtgactaac    599
```

<210>   3889
<211>   575
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220060a12a1

<400>   3889

```
tttctctctc gatacaaaaa tacatagaaa tggcctcttc tcttgcatcc tcatcaactg    60

ttctctggat ccttttttcta accattgcaa ctcttcattt gagttcagcc aggaagttgt   120

ccgggtcaga cccgcagttg cagtttcaat accacagagg ccctctcctc aaaggcaaaa   180

tctcagtaaa cctcatttgg tacggtaaat tcaaaccttc tcaaaaagcc atcgttgctg   240

atttcatcac ctcgctctcc tctcccaaac ccgtcaccgc ccaaccatcc gttgccacgt   300

ggtggaaagc caccgataaa tactacaaaa actcgtcccc caaactcgct ctttccctcg   360

gcaccaccca aatcctggac gagaattact ccttaggcaa atcgcttacg aataaccaaa   420

tcttaaaact tgcatccaag ggtccacaga gaaacgctat caacattgtt ctcacttctg   480

ctgacgtggc agtggagggg ttctgttcag taggtgcgga acacacggat cctncgtggn   540

ggcgcgcgtg aacggaaaga gatacaagtt ggcgt                             575
```

<210>   3890
<211>   501
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060a12d1

<400>   3890

ccaataaaga gctttttatta cgaatattat tggtgtaacc aacgtcgtta caacattact   60

tctaacacta taattttgtt ttcaagctat aacaaaaaga atgaagaaat gaaagaatct 120

ctggtattgc ctaacaagta acaactaagc atggatgaaa actagtttga gtggtagttt 180

tacacgagtg tggagcaagc tgaggtttca gggtcaacaa gagctggcaa cagatacttc 240

cttccgttga ctccattagc gttgtagctg caccagtgg tggggtcaag caagaggttc 300

cctgcatagc cagggtacgc gcccttacca tacaccccag tgcaagccga acctgcttcc 360

aacggagcct ctttgggtcc ttgaaagtaa ccatttccaa aagggttagt gacagtgcca 420

gcaaggagac tagccacatt gatcagcatg ccgtcaagtc ccacatcgtt gttgggtgca 480

accaaaggtg gattctgggg a   501

<210>   3891
<211>   462
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220060b01a1

<400>   3891

gtaatgagca tcgtctagct atctcgatcg aactgtccaa ggtcctgtca ccaaagcctc   60

agcctaagcc tctggtctac atgggtagtg gtaaggcata acttgtgctc tttgtgtggt 120

aagcttccgg tttgtgatga taacgtcgtg ggcttggagc aactgcggga tcataaccac 180

gtcatttcca cggatagcct tcaactacgg caacgtgtta tggcaccgtc gccagttgca 240

cagcgtgcag aggaggcact ggcacaacgt gacataagcc aacccntgac aagcgagatt 300

cgtacacaag ggtattgtgc actgtgcaca ggtacgtccg cgcagtccgg aggattaata 360

aagatacgca cccggatttc cacgtaagag aggagcctcc aaagcacgag aggcatagcg 420

```
tgcaaatatg cgcttaaacg tcgctttgac acgtggggac ag                     462


<210>      3892
<211>      534
<212>    · DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220060b01d1

<400>      3892

gtcttgcagg aaggtttccc gtcatcactg tatgacgtcc tccttctttg ggggggggg   60

ggggggaac aaagggccga gggcgaactt gggaggatag agcgtagtga gatagggtaa   120

tagaatcgag taacaggggt gccaggtgga tagagaaacc ctggggcata ggcgggggaa   180

aagagcggcg tcgttgtgat tagccagtac caaaatgcag tggcggcaag gctggcttac   240

gaacattagc ccagcattga agccaaaagg ggtggggtgt aaggtgcacg tggtagccgg   300

ctgggagtaa aattaagccg gccaaaggcg gggctagatg ttgtaatagt aacgtccact   360

gggctgagtg ttcagcaaac cgacaacagc atgtaagcgg ccgttacaac gttggtactg   420

ggcggttggg ctgtgtgttt ggaagtggta tcntgagtgg tatgctggta gtaaaaaatg   480

tgcgtgattg gcataaaagt tgttgaataa agttgtgcaa cgaacactac ccgg         534


<210>      3893
<211>      545
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060b09a1

<400>      3893

atccaatccc actggaaagg ttaccttgta cgtaaagagt caaaagaaca gttattggat   60

ttgcgtttga ggatgcagaa gtctgctaga aatgtggatg acagcaagcg tctcataaac   120

agactcttgg cagcgctttc agagctactt aatatgaaga gtcttagtaa catccttcat   180

acttgttcaa cattggatat ggctacagga cattctaaga aatgttgtga agaacttgtg   240

gctgcagggg ctatcaacac cttgttgcag ctaattcaaa cagtcagccg gagtatacct   300

gaccaggagg ttctaaagca tgctttgtca actctccgaa atctcgctcg ctatcctcat   360

ctactacaag tgttgatcca gagtcgtagt tctgttcaga taattgtctt ggagttattg   420
```

aggaataaaa atgaaggcta tttcgttgct tctgaacttt tgaagaagat atgttcaact   480

cgggtaggcc ttgagacaat attcaagtcc cctgccctgc taaaacgatt gcacagtctt   540

gttga   545

<210>   3894
<211>   391
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060b09d1

<400>   3894

tttttttttt ttttttttttt tttttttttt tttttttttt tttttttttt tttttttttt   60

tttttttttt tttgggtttt tttttttttt tttttttttt ttatttttttt tttatatttt   120

ctttttttat cttttaggac caaaaaatcc ttttaaaacc aaaaaaaaaa aagggggaaca   180

aagtccccaa gaaactaaaa aaaaccactt ttaaaaaaaa aaaaaaaaaa acccttccaa   240

aacccccaaa aaggggaaaa aaatctaaaa taaaacccccc aaaatttttac ccccaaaaaa   300

aaaaattttc aacaaggccc aaaaaaactt tgggggggaa aaaaaaattt ccacagcccg   360

tgaaaaaccc taaaaaattc cacaccctcc c   391

<210>   3895
<211>   586
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060b10a1

<400>   3895

cttctacccc tgtatcttgc tgttcttttg ttctttcttc tctctttctc tctccttcaa   60

cgcatcccaa ccctgtggcg ctatacccctc ctagatctac tctctaaccg ctatacaggc   120

tggtactaag agctgtggtt agtcatagat ggcgctctca gcttcacggg caatgtcaaa   180

gggtgtggtg gtatctgtgc ctgttctggt tctatctgct ttagtggcta ctgttttcct   240

gttcttcctt ttgtcctctc tttcatcctg ctcctgccct actccttcag aaatctctgc   300

ctccaatgtt aggagtgttg gtgttggtat tggtgttcct gagtctagca gcggtaatgt   360

tccgttagcc acaaggaagg agtctagcag cagtaatatt ccggtatcaa cgaggaagga   420

```
ggatgttgag tgggtgaaga atcaaatcca agcaaatggg cttcatatgc atgacaatgt   480

gcttcgcaag ggtattaacc ctcgcactcg ggctcagcaa cttgatgatc ttaaaccatt   540

taaaggcata tctcactatg agggacctga ttcagataat cacaca                  586
```

```
<210>     3896
<211>     544
<212>     DNA
<213>     Glycine max

<223>     unsure at all n locations
<223>     Clone ID: jC-gmfl02220060b10d1

<400>     3896

gcaagatagt aagactgcta aatacaacta taatatgaga atctacatag aaacagagtg    60

aaaatgtaaa cttcaagcta gcactattac aaaagggccc caaaaaataa tacaaatctc   120

cttgcctttg tagagtcctc aatcaaaatt acatatggtt cttctctctt tagaattaag   180

atttctggca cgagatgaac cactgagtaa aaaaaatgcc acctcttaga actcaaagca   240

aggatatcat cgaattgctg aagatttctc gtgatgaaca aagcacattt agttccatga   300

ggacatttag agatgtttct gatgcctctt tatagaatca atccagatat tatgcctttg   360

accgtctaaa ttcaaaccat atctcatagt gattgaatag taagctatca tgagtatgct   420

tcccaagata ctcaagcccc aaacttgcaa gcctctttgt gcattcctct ccttccaacc   480

ttgaacagaa ctttatatta tgtgatacan agattcgtcc ttcataaggt tccatttaga   540

tgct                                                                544
```

```
<210>     3897
<211>     578
<212>     DNA
<213>     Glycine max

<223>     Clone ID: jC-gmfl02220060b11a1

<400>     3897

cgatcaaaca caaaatggaa aagaatgtgg ggattctcgc cattgacatc tacttccctc    60

ccgcttgcgt tcagcaggaa gcattggaga ctcatgatgg tgccagtaaa gggaagtata   120

ccattggact tggccaagac tgcatgtcat tctgtaccga agtagaagat gtcatctcaa   180
```

tgagtttgac agtggttact tctcttcttg agaagtatgg gattgatcct aaacaaatcg   240

gtcgtctgga agttggaagc gagaccgtga tagacaaaag caaatccatc aagacattcc   300

tgatgcagat cttcgagaaa tatggaaata ctgacattga gggtgttgat tcaactaatg   360

catgctatgg aggaactgct gctctgttta attgtgtcaa ttgggtggag agcaattcat   420

gggatggacg ctatggactt gttgtctgca ctgacagtgc agtctatgct gaaggacctg   480

cccgacctac tggaggagct gctgctattg ccatgctaat tggtcctgat gctcccattt   540

cttttgaaag caaattgaga ggaagtcata tgtctcat   578

<210>   3898
<211>   467
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060b11d1

<400>   3898

ttgtggtctg ttctttttttt ttttttttttt tttttttttt tttttttttt ttttttttttg   60

ggactcatgt ggtacatttt tctatctacc tcttaaaaat tagaaaaaaa aacaagcgca   120

accgaaagca acaagggaag ccccgaaaaa aaaccaacgg aaaaaagggc caaaaaaaca   180

accagggaga cgaaaaaagg gcacacaagg gggcaacaac ccggggaaaa aagaaacaag   240

aaagcaagga gcaaaaacaa aaaggcgccc gggagcggag aaggcggggg gggccagggg   300

ggagcacaag cgccaggggc gggcgaaaaa caaaaaaccg gacgggacgg gcaccaacgg   360

gggccccggc cccccccaaaa cggaggacgc ccatacggag ggaaaaaccc ccgcccccgg   420

gggcaagggg gggaacaccc cggcgaaggg cccccccccg ggggggg   467

<210>   3899
<211>   578
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220060b12a1

<400>   3899

ctatccccctt cttctctctc aatcagaatg ggaagtgctg gaagaactga ttatggggca   60

tacacctatg agaatcttga gagagagcct tactggccat cagagaagct taagatttcc   120

1601

```
atcaccggtg ctgggggttt tatcgcatca cacatagctc ggcgcctcaa gacagagggg   180

cattacgtta ttgcttcgga ttggaagaaa aatgagcaca tgactgagaa catgttctgt   240

gatgaattcc atcttgttga tctcagggtc atggataact gcctcaaggt tacaaagggg   300

gttgatcatg ttttcaatct tgctgcagac atgggtggga tgggttttat tcagtctaac   360

cactctgtca ttatgtacaa caacacaatg attagcttca acatgattga ggctgccagg   420

attaacggca ttaagaggtt tttttatgcc tctagtgctt gtatctaccc tgaatttaaa   480

cagttggaaa ctaatgtgag cttgaaggag ttcgatgcat ggccagctga gcctcaagat   540

gcatatgggc tatagaaact ngcaacagag gaattatg                          578
```

```
<210>      3900
<211>      499
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060b12d1

<400>      3900
```

```
cacaaggaat aaaaaattat ttgcttagta atcaattatt tagacatcaa aattcaaaac    60

aaataattta gaacttctag tgcagtaaac catcttaagc accacgaagt gccttaaaaa   120

actattaaaa tacatcaagg cttccgttcc agacatgaac taccagcaga gacataagaa   180

atccttagca gctaattaaa cataaccaga taccgctatt tagttgctat atataatata   240

atccaactct tcacttgaaa cattaaggtg aatcctacta cagccatatg ttgaccacct   300

cattctttgc catctgcagc tcgaagtgag cctagttgaa ctggggcttg agtctgcacc   360

actttggaag acccatacac agatatatca ataccttgag ccttctcctt ctcgatctgc   420

tccttaatcc agaagtatgt gattctcaac ccatccttca acctcatagt tggagcccaa   480

ccaagttttt cttttatca                                               499
```

```
<210>      3901
<211>      290
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060c01a1

<400>      3901
```

```
gtaatggtca tcgtctagct atctcgatcg aactgtccaa ggtcctgtca ctactaatag    60

aaaaaaaaaa aagacaaaca aaaagcagct gtccacaata ttagtctccc aagttcatcc   120

gttgtcgctt attcgccatt ctttatcatg agttcatcct gcacagcgat gttctcggtg   180

gaataaatca tcgtaacgtg ccgcacgatg tgttcgatta gtggtaacac gtatgaatcc   240

tctgctactc ggggtgcttc gtaaatgaaa tccatctaca tgtccatgtt              290
```

```
<210>      3902
<211>      471
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220060c01d1

<400>      3902
```

```
gctcttcctg gaaggtttcc cgtcatcact gtatgacgtc ctccttcttt gggggggggg    60

ggggggggctc ggcaccaagc tgcgggaaaa ttagcagcag cagaagaaga agacgaacgt   120

gaatgagata aaaaaccaca ggtggcgtgg tggcgtggtg gtgtggtact tagcttagag    180

ggataaccat gcctggtgta tggaatacgt gttcacattt atttaacagt tccacgtcaa    240

cttcacgtcg tncacgaagg tgttgcggca gtggtgtaaa tagtggactt tggaggtttt    300

gtttgccatg ttatttgtgg tagaattccg gttgttgtaa aatgtgtagt ttaaatagta    360

aaatatggta ttttacattg aatttcggct ggaaggcgtc ggcggccaac ctggaaaaaa    420

tttccgtcca cgattcagtt ttgccgtcat ttcattcata tcgggtgagg a            471
```

```
<210>      3903
<211>      451
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060c09d1

<400>      3903
```

```
gtcagtggac tcatcaggat cctcatcagc aatcctacgg atcatatcaa gggctttcct    60

aataagtttc ttcttgattg tctttagact actatgttgc tgaagcattt ctcgcgatac   120

attaagtggc aatgtgtcag aatcaacaag acccagcaaa aagtttaggt acttaggcaa   180
```

1603

```
cagttcatta aattcatctg aaatgaacac acgtctaaca tacaacttca ggttggattt    240

gtttgcgtta taatagctct cgtataaatc ttgaggtgcc ttaggtggta caaacaggac    300

tgccttgaac tcgacatcgc cctcagcagt gaaatgactc catgctaaag gtttctcatc    360

actgaaatcc ttggcaagag agtggtagaa cttggtgtat tcttcttctg taaccttctt    420

tggattcctc agccatatag ctttcacatc a                                   451


<210>      3904
<211>      623
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060c10a1

<400>      3904

gcggcgaaca ggttctccct tcggccacca ccgtcgccgc cgccggctat cccaacgtct     60

ctcctcctcc gctcgctgat cctgtcggtg cttccgatct cgctgctgct gcctcggacg    120

acgttgttgc ggaacctgaa attcacgcgc tgatttcaga cgaagagcac gatcacgatc    180

acgatcacga gcatgagcat gagcatgacc atgacctcga gcacgatcac gagcatgagc    240

atgaccacca cgaggaccgc gatgatcacg ccgccgtggc agctgtctcc ttggaagatc    300

tcaaactcaa gatcattaag caggtggagt attatttcag cgatgaaaat ctgcccactg    360

acaagtatct gttgggtttt gtcaagagga acaaggaagg gtttgttcct gtatcagtaa    420

ttgcttcttt tagaaaaata aagaagctca cgcgagacca tgcatttatt ggtgctgcat    480

tgaaggagtc ttcactgctt ggtgttagtg gtgacgggaa aaggttcaag ccgctcaacc    540

cacttcgttc aatgaattag agatcataag tatatactgc tttgtagaga tttgccagag    600

atcattcatg gagacattca caa                                            623


<210>      3905
<211>      527
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060c10d1

<400>      3905

aactagaacc aagaaaattt caattggtta tcaaacacag ctttctttca tcccctttaa     60
```

1604

caaatttctc gatatgattt tgttacacag attcctcgta aggtgaggat taccacaact   120

agaacagttc tatgtttccc agcctaataa tcttaaaatg ggtatgtact tcaccaccaa   180

cactcacttc caaagattga gatacataat ttaccagtcc aacaaaccca tgttgactca   240

agcgaacacg catagggacc caagtaaaaa ctagtacatc actaaagcat cggacacata   300

atactgctaa atacaatccc tcatttgtgg cgtccaatct ttgctaattc gaagcaggga   360

caggaaaccg acctcgtcct attgcgaagc cacgtgttcc atctggcatt cttggtccag   420

ggggtggctt cgatgcttcg gcagcatgag ttgatggtgt acttccatgg cccattccat   480

ttccagcacg atatttatgg tttcttgatc ttccttgatt tctatac   527

<210>   3906
<211>   569
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220060c11a1

<400>   3906

gcacagccaa actcaaagaa gaaagaagaa aatccagcga aagtaaaacc agcatccgaa   60

aaagatgagc agcatcggaa caggttacga tctctccgtc accactttct cccccgatgg   120

ccgtgttttc cagatcgagt atgctgccaa agccgtcgat aacagcggga ctgttattgg   180

gatcaagtgc aaagatgggg ttgtgttggg cgttgagaag cttattccgt cgaaaatgat   240

gcttccgggt tccaatagaa gaatacactc cgttcatcgt cactctggga tggctgtagc   300

aggattagca gctgatggca ggcaaattgt tgctagggcc aagtctgaag caactaacta   360

tgacagtgta tatggcgaac caattcctgt taaggaactt gctgaccgtg tggctagtta   420

tgtgcacctc tgtacgctat attggtggct cagacctttt ggatgtggtg tcatactagg   480

aggttatgac agggatgaac cacagttgta catggtcgaa ccttttggtg gttcctatag   540

atatatcggt gctgcaattg gcagggcag   569

<210>   3907
<211>   597
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220060c11d1

1605

<400>   3907

caataaaggt cagcttctat agaacttcaa aacaattgtc caagaaacag gaaatcaata   60

agggcattaa atcatcaaga agaatacaat atccaactat cgaagccttg tgtttcctat   120

agatgtttca aatgctcaat tacaaagtta tgaaatacaa ctttgaaata aacatttcta   180

gtccattaat ctgcatccat ttcttcaaga gctgctttgg ccgctgcctt tgctaattca   240

agaagctcat ctggtacctt ctcatgttgg cggtttgatt catcacacac ccagctcatt   300

tctaattcga aatctttgtc cttggcctcg tcatgaactc catatataat tttagccact   360

tcaataagcc cttgtcgaca tgtcatatca gcaagcttta acttttcaat ctctgtttta   420

gcagcctgcc tgcccttgcc aattgcagca ccgaaatatc tataagaaac accagaaggt   480

tcgaccatgt acaactgtgg ttcatccctg tcataacctc ctagtatgac accacatcca   540

aaaggtctga gccaccaata tagcgtacag aggtgcacat aactagccac acggtca   597

<210>   3908
<211>   512
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060c12a1

<400>   3908

cgtgtagcgg agtactaggc cgccgttaca cgctactgct gtccgtcgtc accgtttgaa   60

ttacccaccg ctactttgtc gtcattcttc ttcttcttcc cttttcattg accttttcct   120

tccttcgtcc tccaatggcg actgttccgc acccattatc cctcgcaagt gtaggttttg   180

ctaaccgaac ctcctccatc tccagatcca ctctcaaatg ctgcgctcaa tctccttctc   240

cttcactagt tgacaacgcc cagaagtttc tcgaagcttc caagaagggg aacgtcattc   300

ctctcttccg ctgcatattt tccgatcacc tcactccggt gcttgcgtac cggtgcctgg   360

ttaaggagga cgagagagat gctccgagtt ttctctttga atcggtcgag ccaggccaaa   420

tttctagcat cggacggtac agtgtggttg gagcacagcc gtgtatggaa attgtggcga   480

aagagaacgt ggttactatt atggaccacg tg   512

<210>   3909
<211>   490
<212>   DNA

<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060c12d1

<400>   3909

atcattaaat accttattat gttcatcact tctgtcataa cattatcaaa gtttcagatt   60

ctccgtaatt catatcccct atcatctgcc cacaccacaa acttcctctc taccatttaa   120

aaaggatgca cacctcagtt atcaaggagc atcactgatg atggatcaat ccaaattatt   180

tatcaacaaa tgaagattct gcaagatcaa tggcacgagc aagagctgca gctttgttct   240

cgcactctct ttgttcatca gcaggatcac tgtcagccac aattcccgct ccagcctgga   300

gatgggcaac ccattctctg cgtttgttct tatccttgta ggagtacatt gtgtcataac   360

gagcatttgt agggaaaact atggtcctca gagcaagggc tatgtccata tcgccattga   420

atgatatacc tccaaatccc ccactatagg gccccttct tgcgacttcc aactcatcaa   480

tcaactgcat   490

<210>   3910
<211>   432
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060d01a1

<400>   3910

ataatgagtc atcgtctagc tatctcgatc gaactgtcca aggtcctgtc actttatgac   60

ctgggccgaa ccagcacaac gttggcaacc agggcaactg taccaacgca acaagccaac   120

cggcctgagc ggcctaagtg gccctggatg ggcggtaaca tgtggcgtat acccgcggcc   180

gtttagatta aaattgttgc agtaggcctg catttcacct ataataatag tggcattacg   240

tgtaacggtt atgcaagcga ggagagcgga ggggatagag gtgggatcgc gttaaaatgt   300

aatgattggg tgattgggtg agagtagcgc ccataggggc ggttggccgc gcatgtgcga   360

acaaagcata gcggaaaata atgcgaaata ggtcatagtg ggtggcgctg gagtgtgggc   420

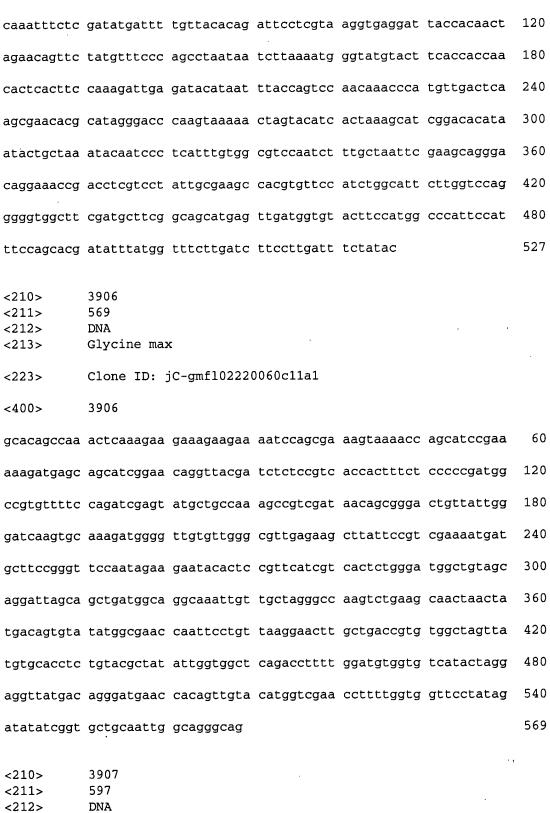atgtcggaca gg   432

<210>   3911
<211>   597
<212>   DNA

<213>　　　　Glycine max

<223>　　　　unsure at all n locations
<223>　　　　Clone ID: jC-gmfl02220060d01d1

<400>　　　　3911

```
gcatgcttgc aggaaggttt cccgtcatca ctgtatgacg tcctcgcttc tttggggggg   60

gaggggcgg gaagctgaat cacataaacg accagaagta taaccaaaca gggtcaaggg   120

ggtgaccggc ggggataggg tagggtggat acctcttata ttaaccgaat aaaagcgctt   180

atagcgagag accaaaccag acaaaccgac ggcacggggc ctaatcgaaa caagagcgaa   240

aagaatagag aagataggta cgccaatggc acatgccgta atagcggcag cgctatcccc   300

gtagttaaag cagtgaccac cggggccgag ccgttaatat tgcgcataac agtggcaata   360

aacgaattta acagcgttaa tagacttaat tggttaggtg gtatggttgc gcntggtaaa   420

gttggtaacc atggtgtagt tggattaaag ttgacgccct gtcacttcaa ggttcactgg   480

atcgatctcg ctagctcatc gtagactgtg gtgagacgcg tattgaaagg taaggtatgc   540

cattcgtcgg ggataatcgt cgcatgccca aaattcgcct cggatttaat ggaagtc     597
```

<210>　　　　3912
<211>　　　　567
<212>　　　　DNA
<213>　　　　Glycine max

<223>　　　　Clone ID: jC-gmfl02220060d09a1

<400>　　　　3912

```
cctcgcagtt ccttgatctc tcctctcaag atgcagatat tcgtgaaaac tttgaccggc   60

aagaccatca cccttgaggt ggaatcctcc gacaccattg acaacgtaaa agctaagatt   120

caagacaagg aagggatccc acctgaccag cagagactta tctttgcggg taaacaactt   180

gaggatggtc gcacccttgc cgattacaac atccaaaagg aatcaaccct ccatctcgtg   240

cttcgcctca ggggtggcat gcaaatcttt gtcaagactt tgaccgggaa gaccatcacc   300

cttgaggtgg aatcctcgga caccattgat aatgttaagg ccaagatcca ggacaaagag   360

ggcatccctc cagatcagca gaggctgatt ttcgctggta acaacttga ggatggaaga   420

acccttgctg attacaacat tcagaaggaa tccacccttc acttggtgct tcgtttgaga   480

ggtggcatgc agattttcgt cagactttga caggaaagac catcaccttg tagggtgaaa   540
```

gttctgatac atttgataat gtgaaag   567

<210>   3913
<211>   474
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060d09d1

<400>   3913

gtgagatgat aatggttttt tattctttg cacgagaccg tgcatagcaa gctatgtcac   60

agacatagcc ttaaaactaa aaacattaaa gcagcaccta ataacagct gcaaccaacg   120

agttcaacat acactggaca taacaacaga gaattcaact aatattggac ataacagaca   180

gactcagaaa ccaccacgaa ggcggaggac aagatgcagg gtggattcct tctgaatatt   240

gtaatccgcc aaggtacgac catcttccaa ttgcttccca gcaaaaataa gcctctgctg   300

atctggtgga ataccctcct tgtcctgaat ctttgctttc acattatcaa tggtatcaga   360

gctttccacc tccaaggtta cggtcttccc tgtcagagtc ttcacaaata tttgcatacc   420

accacgaagc ctcaacacca aatgcagagt ggattccttc tggatattat aatc   474

<210>   3914
<211>   593
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060d10a1

<400>   3914

gaaaaacgtt gtcgttacca tctcttcgga caaaggtctt tgtggtggaa tcaattccac   60

gtctgtcaag ataagcaggg ttttgaacaa attgaattct gggcctgata aagagacaaa   120

atatgtcata ttgggagaga aggctaaggc tcaattgttg cgtgactcaa agaaacaaat   180

tgcgctcagc cttactgaat tgcagaaaaa tcccctgaac tacactcagg tgtctgtctt   240

ggcagatgac attctaaaga atgtggagta tgacgcatta aggattgttt tcaacaaatt   300

tcattctgtt gtacaatttt tgccaacagt tgcaactgta ctgtctcctg aggttattga   360

gagagaggct gaatcaggag gaaagcttgg ggaattggat tcatatgaga ttgaaggtgg   420

cgagacaaaa gctgaaattc ttcagaatct ggctgagttc cagttttctt gtgtcatgta   480

```
caatgctgtg ttggagaatg cttgtagtga gcaaagagca agaatgtctg caatggacag   540

ctttagcagg aatgctgggg atatgcttga tcgtctaccc tcacctataa cag           593


<210>     3915
<211>     515
<212>     DNA
<213>     Glycine max

<223>     unsure at all n locations
<223>     Clone ID: jC-gmfl02220060d10d1

<400>     3915

attaaaatta gaaaaatctt attatgagtc atttcaaaaa aagacagact ccatcttcaa    60

ctgcaaaaac acaattccag aaatatctag tctcaaccaa gaaatcccca caatgggttt   120

gaccttggaa cacttattac agaagtcaag taagattaaa aaaatgacac caacaaattt   180

caaaagaatc caacgatatt atcttaatat cgcgccactg ttgaatatat tacacagatt   240

gctctcctgt aattaacctt ccagtgctga agctccagag ataatctcta tcaattcagt   300

ggtgattgat gcttgacgag ttctgttata ggtgagggtg agacgatcaa gcatatcccc   360

agcattcctg ctagagctgt ccattgcaga cattcttgct ccctgctcac tacaagcatt   420

ctccaacaca gcattgtaca tgacacanga aaactggaac tcagccagat tctgaagaat   480

tcagcttttg tctgccacct tcaatctata tgaat                              515


<210>     3916
<211>     491
<212>     DNA
<213>     Glycine max

<223>     Clone ID: jC-gmfl02220060d11a1

<400>     3916

catctagcta gctagctagc tagcaaatag caatgttaaa aaaccaacca caaccagatt    60

ggcctgagcc cattgtccgg gttcagtcct tatccgaaaa ctgcgaagat tcaatccctg   120

aaaggtacat caagccttct actgatagac catccataaa aagttgtaat tttgatgatg   180

ccaatattcc aatcatcgac cttgggggac tatttggtgc tgaccaacat gtctcagcct   240

caattcttaa gcaaatctca gatgcttgca aagaatgggg cttcttccaa gtcactaatc   300
```

1610

atggtgtcaa ccctgatttg atggacaagg tcagggaaac ttggcgtgaa ttctatcaca   360

tgcccatgga ggtgaagcag caatatgcaa actcgccaaa aacctatgaa ggctactgga   420

gcagacttgg aattgagaaa ggtgctattc ttgatcggag tgattactac tttcttcact   480

atcttccctt t   491

<210>   3917
<211>   511
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220060d11d1

<400>   3917

aagtatccaa tcaccattac atatccttac tctgtggctc aatgcgcaaa caaatcccga   60

tttagttaca ggatttacaa ttaattatac atcaataagg tatagcgtgc ttgtaaactc   120

ttgagaagta agaaaataca attcagacat aaaaatcata tataactatt aatttcttaa   180

aattacatcc aaacatgttg tataaatgtg aaaccaatca cgataatagt gacttactat   240

ttgatggaca taaaatgtaa gcaataaaag cctatgagag aatggatcat ctgggagact   300

ttaaagattc aatttgagat ttgcctcgag gtcctctcat tctaatgaag agtctgtatt   360

catcgaaggt cattgctggg tagagtgagg cctttтcgg tgttacaagc tcttttattg   420

gttctatggg tatgtcactt ttggggttgt agaaaaacgc aagagagact ctctctttat   480

ctgaatntac tatcactctg tgctccacac t   511

<210>   3918
<211>   593
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220060d12a1

<400>   3918

ctcgagccgg ttccaccata acctcccttt ccatttggat aatctaccaa aatgttccac   60

aaatattttt taaataagcc ttaagctcaa tcaaatttca aacaacaaat taacaaagga   120

gctaagagga agaggatgat agcgggttat gtttgattga tgtgttacag tgatcatcaa   180

tatgagaatg ttgcctgttt gctcagccac cccaagttat tccacatctt cccagattcc   240

cttgtttggg ggattgcacc caattcgaaa ggatcttgag agcagatgtg tggctgaaga   300

aggtgtgcat ttggcttcac aatatggagc tcattcactg agaaattcat ttgcagtgca   360

agctacaaag acagtattgg gcagtttttc ttctacaagt gaatcaggat accttacaag   420

cacgtggggt tattcaccag tgctgacaga tggacatcat tcactgagta acggngaagt   480

cagacacatg gaaagttatc atttatctac tgtgccagat gaacttgcgg acttcgcaga   540

acaggccact tgaggatcnt acacattagt gacaccagca caaccagaaa cac   593

<210>   3919
<211>   544
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060d12d1

<400>   3919

agaccaaaac agcaatgagt ttattgaagg attagtttgc aatactataa gttaaaccac   60

cacaaatttt tggtacaaat tgcatcacgc aaatacattc ttattatttt gacagtggaa   120

attgtaccca gcccttttgg cgtggcatgc atgcaacaaa atcaaacata atcatcctca   180

tgaaatgttt ttttttcttt ctatattgtc aaaacgccta caggcagggc agagtccgtg   240

gcagcacaga gtttggataa tttcaacttg caatttttca atcgtggaag ttaaatttgt   300

tgtgaccata ttaatctctc ttctaatttt catgttagca catgacaatc tagaatgatc   360

tcatacattc tgattgagag gaactgtcgg ttcaggaact ggatcttggt taccttcact   420

atcagatggt tgggattcat gtttggcagc agcctgcaat acccggttct gaacatctga   480

tgatgaaggt gatgtaggta atcctaatcc atttgattct aattttccag cagcccatga   540

aaat   544

<210>   3920
<211>   357
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060e01a1

<400>   3920

tgatcatcgt ctagctatct cgatcgaaca tgtccaagcg tgcctgtcac cagtaacaca   60

gcagagctgg cactgtgagc gtggcaaaca acattcaggc atgatagcca gcctgcatca   120

gaggcacgtg tgtacacaga gggataaata atgcccatgt atacccaagg taatactgct   180

aaaacgccga gtaacgatgc gtacaggtaa tacaaactgg ggaactgagc atgaacgatg   240

agagccgacg gttgtggatg cattgacatg ttagaacggt aggacgggcg aagttacaaa   300

ttacgttgga gaatgcctgt gtaagtgcgc catgaccaag ggcatgcgta gcgaaag   357

<210>   3921
<211>   501
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220060e01d1

<400>   3921

atgctaagga aggctttccc gatcatcagc tgctatggac gntcgctcgc tgtgctattg   60

gggggtgga ggggagggcg cgagaccagc tggcaaggcg ggatggcaat gaaacgagtc   120

caataggcat ggataaggaa agtgttaaga aaggtagcta tatatacagg tagagagata   180

gatagaagta aggatgtagt aaggggtgta gcattaggcg ctaccacgca gacagagatc   240

aacatatgct agaccgctgt gatataggga gtgtagcgag ccgtcacatc gtgtgcgtta   300

tatcgatcgc agcggaaata tgacaatcac accagtaaaa gttagacccc acttcggaac   360

gcacattatg ccaagagttg aggcgcacgc acgtacacaa aagtttaaat aggccagggc   420

gtagcataca gtaacacgca aacatagaca taaatatatg agacgcagcc acattatgac   480

gagaaaaacg aaaaatgcag a   501

<210>   3922
<211>   535
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060e09a1

<400>   3922

caagtttgtg ttgtgttgtg tgtgcatgaa aggttgaacc ccattttcca ttgacaattg   60

aactgatggc gagcgccatg ttaggggatg ctaccacgag ctttgaagat ggtaagttgg   120

1613

cgtctatgac caccgatgac gtcgtcagag cctctcgtat tctcgaaaac gatattcgca 180

ttctcaagga agaggtgcag agatcgaatc gggaatggga atcgtacaag gagaagatac 240

aagataatga ggagaaagtt aaacttaata agcaattgcc ctacctcgtt ggtaacattg 300

ttgagatatt ggaaataaat ccagaagatg aagcagaaga agatggttcc aacattgatc 360

ttgactccca aaggaaagga aaatgtgttg tgctaaagac atctactcga cagacaatct 420

ttcttcctgt tgttgggctt gttgaccctg ccaagttaaa acctggtgat ctggttggtg 480

ttaacaaaga tagttactta atcttggatg ccctgccttc tgagtatgat tcacg 535

<210>   3923
<211>   381
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060e09d1

<400>   3923

cccaaaagcc aaaaaaaaca aattttcaaa aaacccaaaa cccggggggaa acccccccccg 60

ggtgaaaaaa accaaccccc aaaccccgcc ccccgaaaaa atttttaac ggggaaaaac 120

aaaaaaaaaa accggggccc cccatgcccc aagggccctt ccctacccaa aggcaagggg 180

gggggaaatt gcccccccccc cccccccgga aaaccaaaaa ggggtttttcc cggatccaac 240

cccctgccca aaagtccccc aggggccaat tttcccgggg ccccaaaaac caaagattat 300

ttaaaaaaat tcccccccccc gggaatttca aacccaagcc caaaaaacca tttaaaaggc 360

cgcgccaaaa aaattgcccc c 381

<210>   3924
<211>   73
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060e10a1

<400>   3924

gttcaatgaa gttctcggtg tgatcgtttg tagatcgatt atattaatgt aatagatggt 60

accagttatt cct 73

```
<210>      3925
<211>      73
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060e10d1

<400>      3925

aggaataact ggtaccatct attacattaa tataatcgat ctacaaacga tcacaccgag      60

aacttcattg aac                                                         73


<210>      3926
<211>      559
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060e11a1

<400>      3926

ccctggcatc atattccgct ctgacaatga gccctacaag tttcacatga aagccttcgt      60

gtctaagatt atacagatga tgaaggatga gaagctcttt gctccccaag gaggtcccat     120

catcttggct caaattgaga acgagtacaa tcatatccaa cttgcatacg aagagaaggg     180

agacagttac gtccaatggg ctgccaatat ggccgtggcc accgatattg gtgttccatg     240

gctcatgtgc aagcagaggg atgcccctga tcccgtcatc aacgcatgca atggtagaca     300

ctgtggtgat accttcgcag ggccaaacaa accatacaaa ccagccatat ggaccgagaa     360

ttggactgct cagtacagag tacatggaga tccaccatcc cagagatccg cagaagacat     420

cgcattctca gttgcccgtt tcttctccaa gaatggaaat ttggtcaact actatatgta     480

ccatggtgga acaaactttg cagaacaag ctctgtgttt agcacaaccc gtattacgat     540

gaggcacctc ttgatgaat                                                  559


<210>      3927
<211>      533
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060e11d1

<400>      3927

aaataaacgc tgtaattttg atatattgat ttaaaaggat gtaggcattg aattgaagta      60
```

```
tgatggtaca aaaatccaat gacatgttga gctcctggac tcttctactt ggccaagtta    120

aaccacgaaa caagacctaa gcacacctca cttggactgc aagttgcttc accaaatctg    180

ggcaagcatc cacgccattg ttgttgaaca ccgcacggtc caatgcaagc gtgcaagctt    240

cttgccctaa gcattctcgc tccacgattt gcttgctggc agcagcattg cagcttccca    300

ttgcaaagtc tccgcaataa ccactggggt ttccaaagct tgcgaactcc actgccacta    360

tcctttttccc agttgcacac gccatcgaag ctgctgctcc aactgatttc actacaggat    420

ggaaattgcc cctcctagac acccatgaat tcacgttcgc agggtccctc tctccaacta    480

cgctgcagat tgtgtctctg ttcacattta ggatctcaac ctgtgctgga act           533
```

<210>   3928
<211>   607
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060e12a1

<400>   3928

```
tttggttggt aacatatagc tacctttctc acgaacaaat tttgactcac tgaggtttgt     60

tatttttatt tcttctttcc atctccatgg ggaattgctt gttcagctcg tacgaaacga    120

cgacgacgac ggtgaaggtt gtagttcacg acgggaggat ggaggagttc tcatacccgg    180

tgaaggtgtc gtatctgctg cagctctatc cggcgtgttt catatgcgac tccgacgaga    240

tgggattcga cgacgtcgta acggcggttc acgaggacga ggagttgagg cccggtcaac    300

tctacttcgc gctcccgttg agccgcctca agcgtcacct cccgccgcag gagatggccg    360

ctctcgccgt cgtcgacacc tccgcgctcg ccaaatgcgg ctcccgccgg aagcagattg    420

tgtttctctc ctgctgcgat gtaaatacga agcctggccg gaaagttgcg ccggaaggta    480

cggtctgtaa taatgacgtg gcgaggaaag gaaggagtaa aattggaggt aggggtatgg    540

gcaagttcac tgctacgttg agttccatac ccggaacaag ggtagttttg gcaagagata    600

caaatat                                                              607
```

<210>   3929
<211>   555
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220060e12d1

<400>   3929

aatcaaacgc gtatacttca attcaattgt tgttctaaac ttttaatgaa acagatctac   60

aatgttcaaa aattaatata tattttтcct cttttttatt ttttaatata tacaaccata   120

caaaaaatta ccagcgaaca catatttta tctctttcca aaactaccct tgttccggta   180

tggaactcaa cgtagccgtg aacttgccca tacccctacc tccaatttta ctccttcctt   240

tcctcgccac gtcattatta ccgaccgtac cttccggcgc aactttccgg ccaggcttcg   300

tatttacatc gcaggaggag agaaacacaa tctgcttccg gcgggagccg catttggcga   360

gcgcggaggt ggcgacgacg gcgagagcgg ccatctcctg cggcggtagg tgacgcttga   420

ggcggctcaa cgggagcgcg aagtatagtt gaccgggcct caactcctcg tcctcgtgaa   480

ccgtcgttac gacgtcgtcg aatcccatct cgatcgagtc gcatatgana acacgccgat   540

agagctgcag cagat   555

<210>   3930
<211>   97
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220060f01a1

<400>   3930

ccgatcctgg ttctagctat ctcgatcgaa ctgtccaagg tcctgtcacc gtgcggcgaa   60

tataccgtaa gcgcgcggag gtagtgggga taatagt   97

<210>   3931
<211>   334
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220060f09a1

<400>   3931

aaaaaagtca gtgatggtca gatatttcgc ttccaatttc tcactttggg acaggataag   60

atctttcatc agatctcaat ccaagttcag taatattctg gcagccaaac ctcaatgaca   120

```
gggtgaatca tatggcatct tcaaatataa atcaactttg tatactgtct tctctttcat    180

agtttgtata aagagaaaac aaacacaaat gctttagaat cataggtaaa atcttgtata    240

tataatatac ctataattac tcaccaagaa agcatgctag tgaacaacta ttactcagga    300

gatgttttat gttatacata cgagcatttt tttt                                334


<210>        3932
<211>        334
<212>        DNA
<213>        Glycine max

<223>        Clone ID: jC-gmfl02220060f09d1

<400>        3932

aaaaaaaatg ctcgtatgta aacataaaaa catctcctga gtaatagttg ttcactagca     60

tgctttcttg gtgagtaatt ataggtatat tatatataca agattttacc tatgattcta    120

aagcatttgt gtttgttttc tctttataca aactatgaaa gagaagacag tatacaaagt    180

tgatttatat ttgaagatgc catatgattc accctgtcat tgaggtttgg ctgccagaat    240

attactgaac ttggattgag atctgatgaa agatcttatc ctgtcccaaa gtgagaaatt    300

ggaagcgaaa tatctgacca tcactgactt tttt                                334


<210>        3933
<211>        576
<212>        DNA
<213>        Glycine max

<223>        unsure at all n locations
<223>        Clone ID: jC-gmfl02220060f10a1

<400>        3933

gagaagaaca gagagagatc catccatcaa ttccaatggc cgatcagctc accgacgaac     60

agatctccga gttcaaggaa gccttcagcc tcttcgacaa ggacggggat ggttgtatta    120

ccaccaagga acttgggacc gtgatgcggt cacttggcca gaacccaact gaggcagagc    180

tgcaggacat gataaatgag gttgatgctg atgggaatgg taccattgat ttcccagaat    240

tcctgaatct catggctcgc aagatgaaag acactgattc agaggaggag ctgaaggagg    300

ctttccgcgt gtttgacaag gatcagaatg cttcatctc tgcagcggag ctccgccatg    360

tgatgaccaa tctcggtgag aagctgaccg acgaggaagt cgatgagatg attcgcgagg    420
```

1618

```
ctgacgttga tggtgatggt cagatcaact atgaggagtt tgtcaaagtc atgatggcca     480

agtgaggacc aatcaaccat aacaaataaa aattgaaaaa cacctgaaca gaaaaaagac     540

agggcagata agctttgatg agaattatat nttcat                               576
```

```
aaaagcacaa attgcaacca attgttccag gttcatagta gtaacccaaa aaagatgaaa      60

agtgaagtac aaatgcatgg tgagacacat ctaatccaag ctactaaaac aaggacagag     120

caaacaagta gaaaatacta atgagcaata ccaataaata aaagcaaaca aagccgacca     180

acaaaaacta atgaccccaa atgaagattg tcctaatgaa aatataattc tcatcaaaac     240

ttatctgccc tgtctttttt ctgttcaggt gtttttcaat ttttttttgt tatggttgat     300

tggtcctcac ttggccatca tgactttgac aaactcctca tagttgatct gaccatcacc     360

atcaacgtca gcctcgcgaa tcatctcatc gacttcctcg tcggtcagct tctcaccgag     420

attggtcatc acatggcgga gctccgctgc agagatgaag ccattctgat ccttgtcaaa     480

cacgcggaaa gcctncttca gctcctnctc tgaatcagtg tctntcatct tgcgagccat     540

gagattcagg aattctggga aatcaatggt accattccat cagcatcaa               589
```

```
cggctgagaa aatagcgacg cggaaacacg cccgtcttca cgatcctgcg atccagcgcg      60

gcgtgtccag cgattccgct ctccgacgag tctgcgcagg ctcaagagtc gcgaggccag     120

ccgccggtga agaatcgcgc gattcgtctg gaaatcgcga ttcaagcacg attcatcccc     180
```

gataaagata ttcaaccacg attcaggaac aaaaacgaga caacctccga ttcgtatcgg   240

tagcagctgg aatcgtatcg aatcgtgcga tacgtatcgt gaatattgaa aatgaagttt   300

cttgattggt acctgaagat tggggttgtg tcggctctgg ttggggcttc tatggagttg   360

ttcatgatca aaactggatt ctatgacaaa gtaactgttt tggagtcaga aaagcgtgcc   420

tgggagaatt cgcctgatgc tcaggcaatt agagaagctc taaacccctg agacagatt   480

gacacagaat aaacaaagaa gtcctgactc aattatgaat cattttctta taatccatga   540

gtggatttaa agaactcaaa gtgttatgtg agaatgtgcg gggaataact   590

<210>   3936
<211>   396
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060f11d1

<400>   3936

aaaaaaacct tgggtttttt tttttggggg ggaaaaaagg ggcccccccg ggggcttggc   60

caaggggggg atttggcccc ttttccccaa aaaacccggg gccctttttc aggggggcaaa   120

aaaaaaaaat tccaccctca aggcccgatt gcaaaattgg gggggggggg gccccccca   180

aaggggcccc tgattggggg gctccccccc aagggggggc caccagggggg ggggggggggg 240

aaaatccccg aacccttttt ataacagaaa agctgggcca aagggtttta ggttttttcc   300

cccccttttc ccaaaaccct tggggggtttt taaaaacccc ccggggtttt aaaaaaagggg   360

ttcctaatgg gggcggggcc ttttgggttt ttcggg   396

<210>   3937
<211>   568
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060f12a1

<400>   3937

ctctagagta attgcggaat cagctagaat tttctaataa tggccaaaga cgttgagcag   60

gttacagagc aaggtgaata ctccgcgaag gattaccatg acccacctcc ggcgccgttg   120

atcgacccag atgagctcac taagtggtcc ttgtacagag ccgccatagc tgagttcata   180

```
gcaacactcc ttttccttta catcaccgtg ttgaccatta ttggctacaa gagacagagt   240

gacaccaaaa tccccggtaa caccgagtgc gacggcgttg gcattttggg catcgcttgg   300

gccttcggtg gcatgatctt catccttgtt tactgcaccg tcggcatctc tgggggacac   360

atcaaccctg cggtgacatt cgggttgttc ctgggacgca aggtgtcttt ggtgagggcg   420

ttgttgtaca tgatagcaca gtgcgccggt gcaatctgcg gtgctgggtt ggccaaaggg   480

ttccagaaat cgtactacaa caggtacgga ggtggagtta acactgttag cgatggctac   540

aacaaaggta cccgttttgg gagctgag                                      568
```

```
<210>      3938
<211>      434
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060f12d1

<400>      3938

ggctaatgat ccaccacatt atataaaaag tgaacacatg atgataaata ctggaagaaa    60

gaaagaaatt aaataaaaaa aaaaaacaaa acaaaaggga tacaaataca cccttgacat   120

aaaagcattc ttatctacaa attcaagagc cccaaaccca cggtatttgg cttttgcccc   180

aaacccacgg gtaagcagaa aagccaaaaa ggaaggaact ccaagaattg aactgaaaca   240

ctgttattgt tttgggtgac acaggacaaa tgatcataat ttaggtagtg gagattatta   300

attaagggtt gctcctgaat gatccaagag ctttgattgc agcagctcta agaatgtatt   360

gatggtagaa tgcagccacc gtagctccaa caaacggtcc aacccagtaa atccattggt   420

cgtcccaggc tttg                                                     434
```

```
<210>      3939
<211>      276
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060g01a1

<400>      3939

gcgatgcggt tccaaggatg tcgatcgaac tgtccaaggt gctgtcacca aaaaggacga    60

ggacaggggc ggaggggggag ggggaggggga gaccgtgtga ggaaggggcg cggttgagtc   120
```

gaatacacaa aaacaaaacc atacaagtag atgtatatat atccactgtg caattaaagg 180

aaagcaggca caacacacac tcaagaaaaa aaacacacgt aaattgaatt gggtttcaaa 240

ccgagtcggg gcgtttggtg gccgaatttg attggt 276

<210>   3940
<211>   378
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060g09a1

<400>   3940

gcttagactg tgaactgttc atagccctgt tgcatatgcg gtggttacaa agacatagaa   60

ggtggaggat actgagattg caaccccagc atcatcatcc tcggccttga ctgatgaata 120

tgatgcttgt acgtcttcag ccctatgcga tattactgtc ttggattgct tgaatgctag 180

cgaaataaca ttccctattg tgcaggactt ggaaaagggt ccttacgcgg agattgatcg 240

agcagtttta tctgaatcag tactgatgta agtggttgtg tgtgagatgt acgggtgact 300

gaattgaagt cagttatgct tcacttgcat gtgacgaggg cacctgttct gacataaggt 360

actaccgtgg aaacagtt 378

<210>   3941
<211>   365
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060g09d1

<400>   3941

acaagaactt gcattacttg ccttggggct cctaaagtag gtcccatcta ccatcaggtt   60

gttgaagcta cctacgtgtc cattattgga ctaggaatct taggagttga agctatgttg 120

gtcatgcagg tatctaggag cccggcatac cgcgttttcc ctgagtgcca tcccggtggg 180

acctatctat ctgcagcggt acactacggg tggctccctg cttaacgtc gccactgctt 240

tagcggcaaa cactttcgtt gcatgtgctg tccatgaccc atgggcacct agccctagag 300

actttggatg cttaacccga cctaccggag cggacctgcc tcgtgattca tgacctagat 360

catgc 365

<210>   3942
<211>   610
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220060g10a1

<400>   3942

```
gaaacttgaa agtaacagtc taacaacaga tcgttaagga gaccaaacca acagaacaga    60

gtaacagaga gttagcattg caacaaagag aaagaaaagt tgaaacattt tcagacagtg   120

gcatgtggga atctattctg ttaacggtgg ctgccaccgc tggcaacaac atcggaaaga   180

tccttcagaa gaagggcact atcattcttc cacctctctc tttcaaactc aaggtcataa   240

ggtcttatgc tttaaacaaa acctgggtgg taggttttct aatagatata tttggggcat   300

tattgatgtt aagggcattg tctctggctc cagtctctgt catccaacca gtttctggct   360

gtggactagc aattctttca atctttttctc attttttatct caaggaagtc atgaatgctg   420

ttgattgggt tggcattaca ttagcaggtt ttggcacaat aggagttggt gctggaggtg   480

aggagcaaga ggtggttgct ctatctattc ttcacatacc agggctggca tttattggtt   540

tcatcttgtt tatacttctt agtggatggt ttcaatatgc aagcgccaac gaagagaaca   600

agagatgatg                                                          610
```

<210>   3943
<211>   540
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220060g10d1

<400>   3943

```
gcatacgaat aaactgttta ccaatttgtt taagtgcaag taaaacaaat tttgtatgtt    60

ggtatgctat catcactgtc atatacaatc cttgaaagca aaaatagtgt aagttcatga   120

atagttttta caaggtggca tctgaagtta acaaacattt catccaaaat gtgtgagcca   180

gaagcaatga atgatcacca aaatgtcatg ccctctgatg aagcgccact ataatataca   240

gaattggcct tggcagacgg attagaaagc aacttaatgc ttagaaatcc tggggatgaa   300

ggaacattat ccagctcatg tcaactcaag ctttttcttt ggaagatgat gatagtaaat   360
```

1623

gatttaatgt tgctgcttga atgacagcac ttggacttgg ttctctcaca cgggaagaag   420

tggctcctct aaggccaaaa ttcttctcca cattgcttct ttnttgtcgt gaagaacang   480

aaaggaatct tactaaccgt gtagaaccaa catgtaaaat cacaccaacc ataataagta   540

<210>   3944
<211>   521
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060g11a1

<400>   3944

acaaattaca ctctttgcct cgcaccttca acttaacctt ttctactcat aatcttaaca   60

acttgctaga agaagataaa gaaagagaaa aagtgtgtgt gtgtgagaga gagcaatggc   120

tggctcgtgg gcacgccgtt ctctgattgt tctggctatc atttccttcg gatgtttatt   180

tgcaatttcc attgctaagg aggaagccac aaaattgggg acggtcatcg ggattgatct   240

tggaacgacc tattcatgtg ttggtgttta caagaacggc catgttgaaa tcatagccaa   300

tgatcaaggt aaccgtatca ccccatcgtg ggttgctttc accgacagtg agagactaat   360

tggagaggct gccaagaatc tggcagctgt caacccagaa aggaccatct ttgatgtcaa   420

gagacttatt ggaagaaagt tcgaagataa ggaagttcaa agagatatga agcttgttcc   480

ttataagatc gtcaacaagg atggaaaacc ttacatacaa g   521

<210>   3945
<211>   452
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060g11d1

<400>   3945

acagctgaag aagtttcgtc gtaaaactaa gcaaaaaagt aaagtacaag taatttcaca   60

aagtatctta tcatcgccac caaaaaagca agcgcagggg acttcttaat tcccagctat   120

cataaaaatt taacagactc cgactaatct agagctcatc gtgagaatcg tcctcgtctt   180

cttcgcctga tgcaccacca ccgcctgggg ctcctccaga tctctgatac acagcactaa   240

tgattgggtt gcaaacggct tcaacctcct tcagcttctc ttcataatct tctttctcca   300

1624

```
tactctggtt gtcatccagc cattccagtg cttctttcac agcagtctca attttctcct    360

tttcatcaga ctccaacttg tcagcgagct tgtccttgtc actgatctgg ttcttcatgt    420

tgtatacata ggtttcaaga ctgttgcgag ca                                  452


<210>      3946
<211>      573
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060g12a1

<400>      3946

attgattcgt tgtctgacac gtaattagtg tttagatata ctactgatca tgtggttgct     60

gatattgcct tacaggccta tgtgcagcag ttagaatcaa gtcgtttgaa gttgatgcag    120

ttggagcaag aacttgaacg tgcaagacag cagggaatgt atataggtgg tgggttggat    180

tctaatcatc tgggttttgc tggatcagta aattcaggaa ttacaacctt tgagatggag    240

tatggacact gggtgaatga gcaaaataga caaatcacag aactgagaaa tgctttaaat    300

gctcatattg gtgacgtaga gctcaggatt ttagtagatg gtatgatgag ccactatgcc    360

gaaatgtttc gcatgaaatc tgctgctgca aaagcagatg ttttctatgt tatgtccggt    420

atgtggaaaa caacagctga agatctttc ctgtggattg gaggctttca cccctcggag    480

cttctaaagg ttcttggtcc cctgattgaa cccctgacgg agcaacagcc gttgaatatc    540

tataaccttt gacaatcatg tcagcaagca gaa                                 573


<210>      3947
<211>      408
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220060g12d1

<400>      3947

ggaataaaaa gaattgcata tgaagctttt ttttccaaaa tttctacaaa acatagtaac     60

gggttacccc cataaatggg aaagcccggg attctagttg gaaaaggggg gctgcctgga    120

aatgttttta gggtcaagcc cccaatgggt ttcaccaaag atgatgccgg gatttaaaaa    180

aattctggcc gggctctttt taaccaagtt ggggggccca aaatctttgt tgaagcccac    240
```

1625

tgactggctt cctgaggggc aaattttggg ggggatgcct tggactatgc tatatcaaag 300

ggggggagatt ctgcccggaa tcaagaaatg gttatatatc cgggtagctc caaggggggtc 360

atcaatccca ttttctataa gggaacaaat cctgctagct ggactttt 408

<210>   3948
<211>   545
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060h01a1

<400>   3948

atgccgagtc agcgtctagc tatctcgatc gaactgtcca aggtcctgtc accactaaac   60

gaagtctaaa agtgagccgg gcggtcggtc tgtcggtcta ataagcctct gcaccgacag   120

gtgataatca cgagtaaccc cgaacacccg gcacgtcacc agtttgcaca tatcgccaac   180

gttgagcgtg cagtttgcac gtgatagtaa ccaaacatca ggtacacacc gtgggccata   240

agggattagc attaacggat aggcgaaatt acgggttttg gatgtttagt ggttagcgtg   300

catgatccat cctagcgagt tggtgttgat atgtcgcatg tgtttttatc agtcatcgct   360

attgttgtta cctttcccat tatgtgtagt actagtatgc aggttagtta ttggtacgag   420

ttgccggcaa ggccaacgcc agccatgcgt ggcagtgggc ggggaaaagt gcaaaaagta   480

acgtacaaac agatgcggta ctggtgcccg agtgtagtag ggccagcaga aaagaacgcg   540

tgagg   545

<210>   3949
<211>   360
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060h01d1

<400>   3949

gtcccgattc cgttccagga aggtttcccg tcatcactgt atgacgtcct ccttctttgg   60

gggggggggg gggcagggcg ggcacagagg aaattgagtt tagaagggca atacggctaa   120

aaggatagta ttatagtaac accgattgaa aacatagaat taaagaaaaa aggaggtgta   180

gggggtatat aggtaaggaa atagggaatg ctaacaaaag gcacaaggcg agtaaagaca   240

atggagggga gtagttaaag cagcaaagat atacaagtgc atacgagtgg gtgcttggca 300

gggggtacag gggaaaataa ccagtacgta cgttaattat tgttaaggta attaccagtt 360

<210>   3950
<211>   516
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220060h08a1

<400>   3950

aaaaggccca caatcataac aaccaaaaag ccccccttctc cttccaaccc ctccatttc   60

aacaacaatt cctctaagca tcgttcagac aagggtacac cacaacagct tttgttagtc 120

ctcaccaagc gatgagagtt cccgttccct catccccaca ggccaaccca aaacccacca 180

ataacgttgt ccgtaccatt gcccttccca acctcaacaa tagcaccacg ccccccacgg 240

gcctgtgcta cgagcccact tctgtccttg acctgtgccg gagcccgagc ccgggcaccg 300

aaaagcccac caccgatcac tccgttctcg tcaccaactc ccaagactat ctcgacctgg 360

aagaccatgc gttgcacaac ttggactggg actccatcat gaaggacttg ggcttacacg 420

acgactccgn caccccgtt ttgaaaactt ttctccaacc cgacgacgac gacgacgacg 480

acaaccacaa caacccatca tgcgacgact tcacac   516

<210>   3951
<211>   399
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060h08d1

<400>   3951

ggaacctaaa tttactttcg ttgcagttta ttataattac tacattatta cataatcccc   60

tctgccaata ataacactcc atgttctaac agcgccatgc tgacgtggca acaatggccc_ 120

tatcatgcca gaaaagcacc agttcgttct ggcgttttgc cacgtgaaat cctctgattt 180

gagacttcgc taacaggcac tctgcttgaa aaaccggaaa ctggcttaac tggaccgggc 240

ttattccggc gccgtaaaac gccttccttc acggggggaac ccggcggcac gcactcttca 300

1627

ccggcggcaa aatcttcggc cgcagctgca tcatctcgat tctcctcacc cactcccctc   360

cggcttccac cgtcgacgcg tccagcgact ccagcatca   399

<210>   3952
<211>   576
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220060h09a1

<400>   3952

gtgactcttt agtgaaacct tcactccatg gtttcctcat tgccctttga agcttgaact   60

cggataaaga tcgtgacttt ggctgattct ggaaatgggt tctcggattc agcttctgcc   120

tatttgcttt tggctgcact tgacatgctt cagcttcttt tttggtagca tagtgagtgt   180

gagaggagat gcaactgtgc aagggagtgt tgccattgat ggcaaggctg tgattggaac   240

cattgatgag gattttgtgt gtgcaacttt ggattggtgg cctcctgaga aatgtgacta   300

tgggagatgc agttggggcc ttgcttctct tctcaatctg gacctcaaca acaagatttt   360

tttaaatgct gtgaaagcat tttcaccgtt gaaacttaga ttaggtggaa gtttgcaaga   420

caagctaata tatggcactg aagataatca ccaaccttgt actcctttng ttaagaaccc   480

ttctgagatg tttagnttca cgccagggtg cctcccaatg gatagatggg atgaacttaa   540

ctactttttt gaaaagcagg ggctaagatt atcttt   576

<210>   3953
<211>   478
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060h09d1

<400>   3953

aaatagaaaa aataatactc ctcacacata atttgctcct gatgcacggg aacatgcact   60

agtaaaagca tataataaaa ccaccaacat cctagttctc aaactaaata attggcattc   120

tcttatggaa actaacacat tttattttcc atgtaatttg ccaaaccacc tagtgaaacc   180

aatttttttg gtctcccctа gtgccactta gtacttagcc gcaagctgaa acaacagcat   240

caggtaaatg agcaaataca atagagaaag gagcaaccct tattggctct gatgaattca   300

catttatagg ctccaaagga ggaatatcac catctgagct tacactcaga gggtttccat   360

ttagtaccat gatttggcta tgtatatccc catcctgtgg agttagatgg tactcttctc   420

ttgctggttc acttgcaaga ggtagttcca tcacttttga atgagtagac atctttct   478

<210>   3954
<211>   228
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060h10a1

<400>   3954

attacagttc ccttgtatgc taatcagttt cagcaagcga actgtaatta cttagtattt   60

agacatgaaa aatagttgtt aaaaggatcc cagttattga ctacctcttg ttatttgccc   120

caaccccctat atagtcatct cgtttcgctg tttgagccta attaattaat taattaatta   180

tggattttta atgtacattg gtgcctgaat cgagtttatt tgttgtct   228

<210>   3955
<211>   305
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060h10d1

<400>   3955

catgatcaga catctaaata accctattaa ggcaccaatg gacattaaaa gtgcgttact   60

tattgattaa gtggataggc tcgaacagcg aatcgagacg actatattgg ggttggggcg   120

aatcacaaga ggtatgtaac aactgggatc cctttaacaa ccatatccta agtgtaacta   180

cccataccct acctggatgc ttgatgaaac tgattagcat ccgagggaac tggattctcg   240

agccgaatgg cgaacgtaat ttggcgatgc tgccaagcca taggtttctt aaagggttgc   300

ctaaa   305

<210>   3956
<211>   352
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220060h11a1

1629

<400>   3956

cttttctctt atcatggctt ctcacaacat caaaatccac gaccacttaa gggtttcccc   60

tccctcagca acagaaatat ccctctctct cactttcttc gacctgttct ggctcaggtt   120

ccacccgtg gaacgcatct tcttctacac cctccctaca ccccattcaa atccatccat   180

tttctattcc aaacttgttc caaagctcaa aacatctctc tctcgcactc tccaacactt   240

ccccctctc gccggcaacg tcgtttggcc tgataacacc ccaaacccaa ccgtccaata   300

cacccaaggg gactccgttt cacttgtggt tgctgaatcc gaagctgatt tc   352

<210>   3957
<211>   515
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220060h11d1

<400>   3957

cgtcaatatg catgttccga atttatgatc aatcatctaa cattccttga cgaaacaaag   60

tacaaaagag atccatgaca tgtttcttca gcacgagccc aacttgaaca ccatcattcc   120

catccttgct ctctgcaaac ccaatggtta aggctctatc caccgatgct atctccacct   180

tagcaggctt tccccaacca aaatcagttc cataaactcc aaaccggtta gaccctgcaa   240

ttcccatgat ttcaactccg tcttttccca aagactcata tctagaaaac gcactttcca   300

tcccatgaaa aatcccctca tctaatatca tctttatttt actatgaata ctctttgcaa   360

caatagcaaa agcttcttcc tttatgaagt ccaatggttc agcatccacc acatgccccc   420

acacacaatt gccaaaataa ttatcatgga ttggaggctc caacctngcc ctgcaatcca   480

ctgtgaacgc aaaagcaaat ttctctttct ctttt   515

<210>   3958
<211>   536
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220060h12a1

<400>   3958

atttatttta tcctggatgg gcatggtctt tggccacttg gattcttggt gtaccttatt   60

cccttgttga agctgttata tggtcttgtg ttgtatacta cactgttgga tttgcccctg   120

ctcctggaag attttttccgc tacatgcttt tgctatttat gcttcaccaa atggcattag   180

gtctcttccg gtttatggct gctcttgcac gcgatatggt cattgctaat acatttggaa   240

cagctgcatt gatgattatc ttcttgctgg gaggatttat tatcccaaaa ggtatgatta   300

agccatggtg gatttggggt tactggttgt cacctcttac ctatggtcaa agagcaattt   360

cagtcaatga atttactgcc acaagatgga tgcagcattc ggcttttggg agcaacacag   420

ttggccttaa tattctcaag ggattcgata taccagctga ggattactgg tattgggttg   480

gtttgggagn tttaacactc tacgctctta ttttcaactg cttggtcact ttgggc   536

<210>   3959
<211>   513
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220060h12d1

<400>   3959

gacagcaaca ctgatgacat tccattaatt ttagtgtcat attcaagagt agcagctatg   60

aattctttca cattgccttt aaatccaggt cccacgagca tttcttccac atcaccaagt   120

tgagatgtga taataccacg tagtgtccaa gaaactgggc agagataatg gaaccacatc   180

caccatacag gtatatgaga ttttggaata agaaatccgg atacaagatt ccatagagag   240

taaaatgcag aagaaataac agctgcaaag tgttgtgtag gtgtaatgcc aacagccatc   300

atgccgtaaa aggtgaagta cataaatgtg aggaacatga acacaagata gaggaaaaac   360

tttccaacat cccttttcaaa attgaccatg aaatatgtga ttacaccaaa tactattgtc   420

tgaagagcaa catatgggat ctccaccagc ccctgagcta ttgcgtatga gattggagag   480

tacattccag cagccttctc tctataaaac act   513

<210>   3960
<211>   471
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061a01a1

1631

<400>   3960

gatcagacaa cactgagcat cgtctagcta tctcgatcga actgtccaag gtcctgtcac   60

taagaataga ctagacacgc acaacgcaca acacaaaaag cctaagtgtt agatttacga   120

cataatgggg tagacagcca cacgccaaac gtttgtggtg taataagtcc gggttcagta   180

gtaattttgt gatgcaacat agtagaccct agaggttact tctgatgaac caacagcggc   240

attggctcgc ccacgtggtg aaaacacttg gggtttagaa taaacgtaaa caggccgtgg   300

tagtgttccg tgtgcggtgc gtgtgtgagt ggtcacttag cgtggtaaac agaatacaca   360

aaaaccagca atgaccaacg tggcaagtaa ggcaggcgcc aaaattatga gagcaactat   420

gcctacattg ccagcagcgg aggccaacag ggaatgatga gcttcactgc t   471

<210>   3961
<211>   463
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220061a01d1

<400>   3961

ggtaccgatt ccgttccagg aaggtttccc gtcatcactg tatgacgtcc tccttctttg   60

ggggggggg gggggtataa agaaccagaa aagtaatgta ctttcgtagg aataaccgtt   120

agccaataag ggtacgcgga gatagagcta taggaggggt gtcaaggaac agtagtagta   180

taaaggaacg gtttttataa tggaggtagc ttacagggga caatactaag gtagagtata   240

ctgggcaacg tcatggagat tacttttatc cggtagtaca gagcgatggc cgtatggctg   300

gtatatggaa agacggtgtc aggttttagg tgttgacggt atcattaaaa ttatgatcgg   360

gaatgttgtt ttagccantg gcaagcaact ggccggcact ataagggagt tagataaggt   420

tacttgcaag acttgggcag agctctgtct agtgggtgac agt   463

<210>   3962
<211>   571
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a02a1

<400>   3962

gtctgatttt gttatcactt gcttctgctt ccttcgccgc caacccaaga acaccaattg   60

atgtgccatt tggcagaaac tatgtgccta cttgggcctt tgatcacatc aaatacctca   120

atggtggttc tgagattcag cttcatcttg ataagtacac tggtactggc ttccaatcca   180

aaggatccta cctgtttggt cacttcagca tgtacataaa attggttcct ggtgattcag   240

ctggcacagt cactgctttc tatttatcat ccacaaactc agaacatgat gaaatagact   300

ttgagttctt gggaaacaga accgggcaac cttacatttt gcaaactaat gtgttcactg   360

gtggcaaggg tgacagagaa caaagaatct acctttggtt tgaccctaca agagaatacc   420

acagatactc agtgctatgg aacatgtacc agattggttt ctatgtggat gactacccaa   480

taagggtatt caagaacagc aatgacttgg gagtgaagtt ccatttaacc aaccaatgaa   540

gatatacaac agtttgtgga atgctgatga c   571

<210>   3963
<211>   402
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a02d1

<400>   3963

gattgaatta caaatccaaa ttaaggcaca ttgccatttt ttttggtaca tagctcaaac   60

aggtttacat cccatagctt ttgcagcagc aataaatgag gatttaaatt ttcagcaatc   120

caagccataa acccaaattg aattttgtat caacacttag gggggggcctt catgaaatca   180

aggaaatggg aactttatgg gaggggaaat aaaaatagga tttggaagct tatttttaaaa   240

tatattttttg gggacaaaaa aattccccat gagcaaaatt agtggaaaat tgcccccccc   300

aattttttga tgagcccaat taaatgtccc ggcctttggc cccctttgga aaaacttgag   360

ggtaacgttt gcggcccgag caattttttga aaaagggggaa tt   402

<210>   3964
<211>   521
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a03a1

<400>   3964

aatatggcca ccaccactac ccagcctccc tctaatatct gttttttcct tctgttgttg   60

cttctagcac actttcattt gggcataagc caacttgagc tgaattacta ctctaaaagc   120

tgcccaaaag ctgaagagat catcaaggaa caagttacac aactatataa caagcatgga   180

aacactgccg tttcgtgggt cagaaatctc ttccacgatt gcgtggttaa gtcatgcgat   240

gcatcattac tgttagcgac ggtgagcgat gtagtgtcgg agcagacatc ggatagaagt   300

tttgggatga gaaacttcaa gtacgtaaac actatcaaag cagcggctga gaaagaatgc   360

cccttcacag ggtcatgcgc tgacattgat gctctttctg ccagagatgc cattgctttg   420

ttgggaggac caagcattga aatgaagaca gggagaaagg acagcaaaga aagctatgca   480

atggacgtgg atgacttgat tcccaaccac aatgatccat g   521

<210>   3965
<211>   265
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a03d1

<400>   3965

gaaacaaacg attttttttat tttgtttctt tgtattttttt ttaataacgt gtttaaataa   60

aatataaaaa ttcattctac ggggggaaaa cagagacaag ataaaaaaaa ccccccataa   120

aaccaacagt acaaaaccgg gaaaaaacca gacatgaaca ccttcagtta gggaaaaaaa   180

aaaaagccaa ccccacacaa gagacagaaa aacaaagtat atggataacc gacccccaacc   240

caagggaact aagatgaaac accca   265

<210>   3966
<211>   496
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a04a1

<400>   3966

caaaaaagaa aatgatgctc ggagagcacc atcgcgcgaa tccaacggtt cacgtgccac   60

cgtggccaac ccacgacgat ccaacggccg agatgtactc cgcgttttta acaaacgacg   120

tcaatgctgg tgagtactct ccgtactatc ttcaagaagc actaacggct ctgcagcgtt   180

ttctgccgtc taacgaaacg gacgctgact cggacacgga ggctcaaccc gacgcggcgg   240

tggacgcgta ctcgtgcgac catttccgca tgtacgagtt caaggtccgt cgatgcgcac   300

gtggcaggtc acacgactgg acggagtgtc cgtacgcgca tcccggcgag aaggctcgac   360

gccgggaccc gagaaagttc cactactccg gcgcggcgtg cccggagttt cgcaagggaa   420

actgcaagaa aggcgacacg tgcgagttcg cgcacggcgt tttcgagtgc tggctccacc   480

cggcgcgcta tcggac   496

<210>   3967
<211>   456
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a04d1

<400>   3967

aggataaaaa tatacattaa cataaataat ttgaataaca agattcctct tggatcctac   60

atatttatac atttgtacat caatgagatg agattagcaa gtaagtgaaa ataacagaca   120

cgatagagtt aattaagtaa catagcacat gataataata atagtaattc gtaataacaa   180

caatagtaag ctaactgtac aaaaggcttc ggatactttc aatttcccaa atcaatagag   240

cgatgttgat gaatttccaa gacaaactcc ccaaaaaaga gatccttcac ttcttctctt   300

cagtctttac ccaaatacca taccataaca taccacgaga tagaataaaa aatatttaca   360

cagactcgca tctcccaaaa taaatctgca ttgctaaata ttaataataa tatcagttaa   420

ccagctccga gacccaccca acatccggag caccac   456

<210>   3968
<211>   561
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220061a05a1

<400>   3968

ctttcaatct ctttcccttc ctttccttgt ctttttattt ttttacatca aaattaaaat   60

aataacaccc atcaaacaaa ccacacttct cccctccct ttgaaaacac ctcaatcaat   120

1635

ctcgatgatc atggcagcac tcaattcaag cacttgtgcc aaacctcaat tccctcaccc 180

tctctcctcc tctttctctt cttcttcatc attaacaaga gatttgggct tccccacaag 240

gtttcagaag aagcccatta gaaaggtggt ggattgtgct ctacactccc ccccagtgat 300

ccatttccca aaccagccct acaacaaacc tgaaattacc aaagaaccca ccacctccac 360

cgcggaaagg cctcagtgga acccattcca aaaagccgca gcaaaggccc tcgacatgtt 420

cgagagcgcg ttgctctcac gcgagctcaa ccaacccttt cccaaaacca ctgacccacg 480

cgtncaaatt gccggtaact tcgcccccgt ccggaacacc ccgtcgacaa tctctccccg 540

ttattggcac aatccccgac g   561

<210>   3969
<211>   446
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061a05d1

<400>   3969

gacaagagag tcaggaaggc aagattgaaa attgaagaac caaaagccaa acagaaagcg   60

aattctttttt taaaacaaaa gaaaggaagc aagaaacaga aagcagctga gcttcatcca 120

caaactacaa gctgattcgc gaaagcatag ataaatattt attattgaga agggtagaaa 180

aggcaacaaa atgtttgttg tctgaaatgt gttttaccgt ttaagcgacc aaataaaata 240

gtccaggtgg acttcaatga gcctccacaa acgtgccatg gaagccatag ggcactcttg 300

aaggcagcat gacagtggcc tccaacttca aatcaagtgc attcagaatc tgcaactcgg 360

actgccacgt catctcgtca tgcacaaaag ccatcacgta cccttcatcc tcattcccat 420

tccctccacg tgttggcaag aagaat   446

<210>   3970
<211>   590
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220061a06a1

<400>   3970

aattcactct ctattttgtt gttaatcgaa tttctctctc ctttctttct ctcttctctt   60

gacgttgaaa atattacgag agagaaacgc aaggagagag aggaaaacca aaaaatggtt   120

gtttccaagg tggttgtttt tcttggtctg attctcgccg cccttatgtc agtggcttgc   180

tcccaatccg ctgctccggc tcctgctcct gctcccacaa gcgatggcac ctcaattgac   240

caagctgtag cgtatgttct aatgttggtt gccttggttc taacttacat catgcattaa   300

ggcaactacg agcaatgaca cgccctaaat taattgatga gggctatagg gcatttttat   360

ttcaaggacg tgtcaaaagc acttaggagg aagaaagatt ttttaattgg accgatgcat   420

ttttgtttat cttctcttgc tccaaggata atctcatttt gattnttcag ttgtttattt   480

attgtgcttg tatttctttt tagttcgtta gttattgact atggaatgaa tgcaaagtta   540

attaataaaa gacattgaag agtgaagtgt gtgaactttt ggctatatca   590

<210>   3971
<211>   414
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a06d1

<400>   3971

tttatttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt   60

tttttttttt tttttttttt tttatttaat atatattaaa aaaaaaaaaa aaagaaaaaa   120

aaaaaaaaaa agaaaaaaaa aaaaaaagaa agaaaaaaaa agaaagaaga aaaaaaaaaa   180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   240

aaaaaagaag aaaaaaaaaa aaaaagtggg aaaaaaaaaa agaaaagaa aaaggaaaag   300

aaaaaaaaaa agcacaaaaa agagaaagag gaaaagaaaa aaaaaaagaa acaaggagga   360

aaaaaaaaaa aaaaaaaaaa atgcgaagac agaaaaaaaa gagagcaaga aaaa   414

<210>   3972
<211>   520
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a07a1

<400>   3972

cttgcttttg gtcaatctaa agccaagttt caaatggagc ccaatactgg agtgacattt   60

gatgatgttg ctggagtgga tgaagccaag caggatttta tggaggtggt ggaatttctt   120

aagaagcctg agaggttcac tgctgttggg gctcgcatac caaaggtgt tcttcttgtt   180

ggtcctcctg gaactgggaa gacactttta gcaaaggcta ttgcaggtga agcaggtgtc   240

ccatttttct caatctcagg ttctgagttt gtagagatgt ttgttggtgt tggagcttct   300

cgagtccgcg atttattcag gaaggccaaa gagaatgccc catgcattgt ttttgttgat   360

gaaattgatg ctgttggaag gcaaagaggt actggaattg gtggagggaa tgatgaaaga   420

gaacagaccc tcaatcactt ttgacagaaa tggatgggat tgatgggtat accggattca   480

ttgtcattgc agctcctaac agggttgaca ttcttgaatc   520

<210>   3973
<211>   420
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a07d1

<400>   3973

aaagaagcaa gctaggatct tttgtcatta ctaaaattaa gagtcaaggg tatattacaa   60

atattttaca attttagaaa aattcagtat gtggagagct acactacatt gcagtggcat   120

ataggctatt caaacaacaa ctggtgaggg agttgaagga gggacccgat tttcagcagg   180

aatttcaaca aactcggaca ggagagctcg gaattcatct ccagacattg tctccttctc   240

caatagaact ttcacaattt tgtcaattgc ctcacggttg ctccttattt ggctcaatgc   300

tatttcatat gcttcatctg agagtctctt gacagcagca tcaatgtctt cagcaagctt   360

ttctgacatt gagtttcttg ccatcattct catgataaca tcactttgag ctgatgagtc   420

<210>   3974
<211>   329
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a08a1

<400>   3974

caaattcatt ttaatcctaa ttctgcactt cttgatcatt cgatttttct cctcaagatg   60

cagatattcg taaaaacttt gaccggcaag accatcaccc ttgaggtgga atcctccgac   120

accattgaca acgtaaaagc taagattcaa gacaaggaag ggatcccacc tgaccagcag   180

agacttatct ttgcgggtaa acaacttgag gatggtcgca cccttgccga ttacaacatc·   240

caaaaggaat caaccctcca tcttgtgctt cgcctcaggg gtggcatgca aatctttgtc   300

aagactttga ccgggaagac cattaccct   329

<210>   3975
<211>   421
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a08d1

<400>   3975

aataaaaaac tatatatttg aagtaataat acgaaatatg aatttaacta tgatacgata   60

ttgatatttа attcttttgg cgaaacgagc tcaatacatc atattaaaac ataaaaagca   120

gcacctaaac cagaacagca aacaagttca agggagaaat tgaacataac agacatgaca   180

tacaagaaca cttgaaaaaa gacacgctta aaacaagaac acttgaaaaa aaacacgctt   240

aaaaaccacc gcgaaggcga aggacgagat gcaaggtgga ttccttctga atattgtaat   300

ctgccaaggt acgaccatct tccagttgct tcccagcaaa ataagcctc tgctgatcag   360

gtggaatgcc ctccttgtcc tgaatctttg ccttcacatt atcaatggta tcagaacttt   420

c   421

<210>   3976
<211>   593
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a09a1

<400>   3976

gaggaacttt gcaacaagca tggagacagc ctcagactat ggagcattca cagagaaatt   60

cactttacca ccaaattctg caccagctct tcctctcaaa tcactcacct ttgcagtgaa   120

agagatgtat gtacttcact tttctttttg taccacaata ttctgattgt caaaaactct   180

cctttgctga catcaaagtc gtcaactagt ctttgaatcc atgcttctgc atcttgaact   240

tgttttggaa gtgtttgtgt caaacagttt cgacacggaa ggatacgtga ccggcttcgg   300

gaatcctgac tgggcaagga ctcatccggt ggctacctct actgctccaa cagctctggc   360

tctcctcaga gcaggtgcca cttgtgttgg taaaactgtc atggatgaaa tggcttacag   420

tataaatgga gagaatatac attatggcac acctagaaat ccttgtgcac cagaccgggt   480

tcctggagga tcttctagtg gctctgctgt tgcagatggt gcacagcttg tggatttctc   540

attaggaact gatactggag gaaagtgtag agtacctgca tcatactgtg gga   593

<210>   3977
<211>   546
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a09d1

<400>   3977

agcacaatca aaatgatatg atttaatgaa taattgaact cataatatct gaaagaaaca   60

ggatatagat cagcaaaaat ttcctttata caatatccct tctttgattt atgtccataa   120

ttcgcttctc tcccagcttt tggcatagta ggcatactca aagcatatct acatccttgc   180

agtcagatta aagtttgtgc tctatgatat gctgctttct atcttcaatg ctgtcataaa   240

gactctcaac aaggtgaagc aaaaatttat ctgcaccatg tctggccacc agagaaattg   300

ataggggaag gttattatac atccctagcg gtatgcttac ctgacaaaat cctgatactc   360

cagcaatgga cagcaggcta aaagcccttg cacgaaaaat ttctaagtcg gatgtatttg   420

tttgtagttt tgggggagga cctggaactg tggggatcat tagaacacca aagtccccaa   480

gatgaagccg aagagcatcg tgtagttccc ttttatagac taacagatat caatgttctc   540

ccccgt   546

<210>   3978
<211>   654
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a10a1

<400>   3978

gacagtgtgg aacaagaggt tggaagtagc actgtgtgga aaatcgagga atcaaaatta   60

```
gggttcaaaa tctcattgag gagaaagaag aagaaggatg tggcacgagg cgagaaggtc   120

ggagaagaag gtccacgaca tgatggacgc ggctcggaag agagcgcaac gacgcgccgt   180

ttacctcgcc aagagacgcg gcgatcctca gcaatccatt cagctcgtcg ctttcctag    240

ccgaacctat cgcgacgacg ctctctacca agcctcacag gatcagcagg gcctgatacc   300

ttggaatggg aaacaggatg tattgataga ccgatttgat gggcgtgctc tccttgattt   360

cgttcgcgat tctagtcaca ggcgcgctcc ggagaagtct gaagaagaag aagagttaga   420

agagtttgtt aattttgagc gttatcggga tttaataaag catcgccgta gaggattcac   480

tgatgaggag gctttggagc atgtaaatca agagatggag gccaaggctg ctgctccatt   540

tacatcagac agatctaatt tgttgcagcc tgctgcaagc aaggatctta ctcgcaggtc   600

aggttttcta tgatgggaat ggaaaagaga actcatattc agatgatgag atat          654


<210>      3979
<211>      434
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220061a10d1

<400>      3979

accacagtag gtaaaaaaat ttctattcta ggttaaaaag ggtttatcaa acttacatgc    60

tatattattt tatagttcaa taatcatatt cttttggctt caatgaacct acgttattga   120

tttgaattca ataaatctga accttggttt caaaaagatt gcatagcgca actttaacac   180

aacttaacca aaaccggttt ccctcgaaac atttggtaaa aatgaaagcc cgatgttaat   240

atccattcca tttttataaac aaatggccca aaactttgtc agcctttta cacgtttaca    300

gcattccatc agggccttga tcgatttctt atcctgggag atcgagaatt aggagaccca   360

aaaccttagc cggaaccggg gccaaaaggg gaaccagaac ttgaataata tcttctggaa   420

cctctactac ttgg                                                     434


<210>      3980
<211>      480
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220061a11a1
```

<400>   3980

ttttctgctt tcagctgcta catacatcac ctacccctc tctgttcatt gctcaattgt   60

ttccctcaca actcataacc tctttccat ttaacctttg aaaaaattcc atactgtaac   120

aacagatcac catggctcta tcacgtttgt cccaccgcag catcggatcc actctcacaa   180

aacccttctc cgccgacgcc gcctcctccc gttcgatctc cacctcggac accccctaa   240

caatcgagac ctctgtcccc ttcaccgcgc acaactgcga ccccccgtca cgcgcggtcg   300

cgacctcctc ctcggagctc ctcaccttct tccgcgacat ggccctgatg cggcgcatgg   360

agatcgccgc tgactccctc tacaaggcca agctcatccg cggcttttgc cacctctacg   420

acggncagga ggccgtcgcc gtcggcatgg atgccgtcat cactaaaaag gacttcatca   480

<210>   3981
<211>   420
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a11d1

<400>   3981

aatatatatc tatatagatt tttgaactgt ttgacgtgtc taaaatattc tgaactacat   60

atcttcagta gtgcacaatg tattcctcaa atttgcagaa caccccagtt gcatcaatca   120

caatgatgct ttggctgtta gatccgcaaa tattacatga caaaaaaata acaaaccccg   180

ccccattgct aaccaagcat atgaataaat tcacactata cacgcgggca gaaactcaac   240

gaatagggga gagagatgac cctctgtaga acctttatt cttcactatt ttgaagagtc   300

tgctacgaca aggtggcaag atattcaaag dacaaagttc tgaattatgg taaagtagct   360

ctcacttctt tcctatcagc accaaatgtc tcaactccgt aacctttaac atagacattg   420

<210>   3982
<211>   478
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a12a1

<400>   3982

cgaagtgtga agacagacac agtgagaatg atgaagcgtc ggttcctttt ggttctcttg   60

gttctctatg tcacagtgga gttctacgta gaagcagatg gtagtggtgg gtttgtgaga   120

acaagaggag tgcagcttat gctgaatggg agcccctact atgctaatgg ctttaatgcc   180

tattggctaa tgtatcttgc ctctgatcct tctcagagaa acaaagtctc atcagtgttt   240

caacaggctt caaatcatgg cctcaacatt gccagaactt gggctttcag tgatggtgga   300

tatcaaccac tacaatactc tcctggatct tacaattacc aaatgtttca gggattggat   360

tttgcaatag ccgaagcatg aaaatatggg atcaagatgg tgttgagttt ggtgaataac   420

tatgagaaca tgggtgggaa gaagcaatat gtggaatggg caaagagtca ggggcagt   478

<210>   3983
<211>   455
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061a12d1

<400>   3983

gaagcacttc aaattatcgt cagcagtcca ttttataaac agtttagaca aagtacattc   60

acttgccgac ataatagtgt agatgaaatg ctagttcgtg cattacaaag tttctctcga   120

aatatctcaa taataaatag ttatgtctat cgcatttgta gaacacttca cttggaatac   180

tttgacgaaa ataacaggca attcttgcca ctaagattat tgggacactt cattctgaag   240

attaatccac acgcaaataa gttatcaatt aaagtttcta actcccttca ctctctctct   300

ctctctctat atatatat catggtagtt aagacgtatc atattcagtt tccacctcta   360

atttgcttag cttcattcca cttctcaatg tttctaagtc tggcgtacat cttgcgaatt   420

cggtttagtt tttgagactc ttgagcgatc aaatt   455

<210>   3984
<211>   601
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220061b01a1

<400>   3984

gtgcagccta gcactgagca tcgtctagct atctcgatcg aactgtccaa ggtcctgtca   60

caagcccggt ggtgggcgcc atgggcgcgt gaaggggcca tggtatgacg ttgtggtgct   120

aggtgcgctt gggttatcac cattacgcca gcggttaggt cctacaaatg agtcggttta   180

tggcccgtgg ggcagtatag taaagatcgg taagccnacc agagtgcaac aaggctagat   240

ggctagtggc gataacggat atgccagatg ccgtggttac gttaaacccg tagatggcgg   300

gccgtatggt agtagcaata gaaacagccg gttgccatca ggtagtgccg tataggtatg   360

cgtgggggag ggagtggtgt aaaacgtcca cgtatcagca cagacagggg cagcggtggc   420

cccaatacaa taccataatt ggatagggc taaataaagc gcggtattcc acataaccgc   480

atacacacta aacaagtggg tgtccagggc agttaataaa ctagattata cagatgtgcg   540

ctgcgccaat agcgagtaaa ggcgcggttg acccagaata gtttaagacc cgcggtaaaa   600

a   601

<210>   3985
<211>   476
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061b01d1

<400>   3985

ggcaccattc cgttccaagg aaggtttccc gtcatcactg tatgacgtcc tccttctttg   60

ggggggggg ggggaaacga caaggatata atagagagaa ggggaggaga cacctgtgct   120

gtgcgaggta aattgtatgt agtaaggata gtactgtaaa taagataagc agaagaaaga   180

agccgaccaa gaaacgagag ccgaaagcag caagtaagaa gataagaaca aatggagccg   240

actaattaga aatagacgat gatagcgcaa gggaaagcgt atccgggtgg tgataggtac   300

accaactgca cccgaatcct ggtgcgtacg ctacgacggc gacagccacg agggttgcgt   360

ctatttattg cagttagtgt taggcacaag tagtaacagt agcagatgcg ctggcagttt   420

attattgtgg cttggcgcga ctatacaatg ggctaggtat gcaactggta tattta   476

<210>   3986
<211>   542
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220061b02a1

<400>   3986

agggggcagga aaaatcaaag ccaaaaatca agccatggat tttattcatg aaatgggttg   60

gcttcttcac agaagccagt tgaaattaag gatggtttct agtgtggatc tctttccatt   120

gaaacggttc aagtggctta ttgagttttc catggatcat gattggtgtg cagcagtgag   180

aaaactgttg aacctactgt ttgatggaac tgtaaataca ggagatcatc cttccttgta   240

tcttgcgctt tcagagatgg gtctccttca caaagctgta aggagaaata gcaagcattt   300

agtggagttg cttttgagat atgttcctga gaatatttct gataaactag gacctgaaga   360

gaaggcactg gttgatggag agaatcagac cttcttgttt agacctgatg ttgatggtac   420

tgctggtttg acaccactcc atatagcagc cgggaaagat ggttctgagg atgtacttga   480

tgctttgact aatgatcctt gcatggntgg aattgaagcg tggaaaaatg ctcgtgacag   540

ca   542

<210>   3987
<211>   397
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061b02d1

<400>   3987

aaaaaaaaag ggggaaaaac ccccccccagg ttaccccaa aaattaaaat ccccccccaa   60

aaaaggtgga aaaaagggg gccccaccac ccatggcccg ggggggcccc ttaggggaaa   120

caaaacccccc aaaaaaaggg ccccagttcc taaaaacaaa aaacccccc cccgggaaaa   180

caggggtttt cagactgtaa accccccct aacatacccca accaggttta aggggtcgc   240

aagtaaagaa ccctagcttg gtccaaagcc caaaatttcc ccctgggggg ggggaaaac   300

cccataaacc ctggggggc ctttaaaaaa aggggccccc aaaacaaaa aggggcgtta   360

tgcccccctt gggaagcatg ggggggggga cccaaaa   397

<210>   3988
<211>   538
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061b03a1

<400>   3988

aacaagaata ctcataataa tatagtggct agcatagagc tagtaataat attaatattg   60

ttaagctagc tctaagccat ggctaatgaa cgtgatctgt tctcggcgga gattgtgaac   120

cgtggaattg aatcgtcagg accaaacgct gggtcgttga cgttttcggt gagggtgaga   180

aggcgcttac cggattttct tcaatcggtg aaccttaagt acgtgaaatt gggttaccat   240

tatctgataa accatggcat atacttgttc accataccgg ttcttctcgt ggtgtttagt   300

gctgaggttg gaagcctcag caaagaggac ctatggaaga agctttggga agacgcgcgt   360

tacgaccttg ctacggatct tgcttccttt ggggtcttcg ttttcacctt gtctgtctac   420

ttcatgtcga ggccacgttc catttacctc attgattctg catgttataa acccgatgat   480

gaactcaagg tgtcaaggga gcagttgatg gatgtagcat gaaaatcagg caagttcg   538

<210>   3989
<211>   437
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061b03d1

<400>   3989

agccatccat gaactttgat atcaatcatc ctatgaagaa acagagaaat taaacaagga   60

ggcatccata tgcctaatga ggaattaaaa gtatagaatt tcaagccagg aataattaaa   120

tgagaaagaa acagaaaaca gatgtaacat ttttgaagac caaattagta ctacccttat   180

tgatcctaac cataccctca ctgataataa gattcataac actagtgccg tcaaattctg   240

cttcagttgt tgagaggtgc aggatatctg ttgatgcaat caagccaagg gttcctagaa   300

ggcttggtga ctcggcgcat ggcgcgccaa accacactgt tgcacttgaa gccagagcca   360

aatgcgagtt gccaaacacg gtctcctctt ctaacactct cttttgcttc catgtaagcc   420

aactcatacc aaatgct   437

<210>   3990
<211>   483
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061b04d1

1646

<400> 3990

```
aaaatccacg gtaacaaaat ttatatgatt gaaatatgac agaatattta tcaacgcact    60

ggcaaactgt caaaaaagta accaccttag ctggaggcac caaatgccga cgaaaattca   120

gaatgagtat ttgtgctcaa aacgacaatc atagtactca aatatctcta gcaagagtag   180

aaattaatac ataacgaagt aacaaactat catgggtgtc tactgttgct taacttcaac   240

tttcttcttc tgccacaagc ggtctagagc actgtcagca tcaccctgag cacggatgaa   300

tccgcagagg gcaaaagtgg agaaatggcc attgtagacg ccattctcat ccacatgccc   360

aatgttgatc tgaaccgaag catggtcctt agcggtaatc aatctgtttg tggcggagca   420

cttcctagga atgtaaagct cagtgatctg tcctttcttc gtctgcatct ttggttgaac   480

gct                                                                 483
```

<210>   3991
<211>   483
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220061b05a1

<400>   3991

```
cttcccttcc tccccaagca taacatagct tcctcgattc ttcgttctag ggtttgaaaa    60

gatgaacatt tgtggttgtt gggtttcatc aatgaaattg cccttcctcg ggtggcgctt   120

ttcaaggcct tttacctctc tctgttcttc ttctttttcg ccacgcatta tgaccattca   180

aagttgttct tctccttctt cttcagcctc cttatcaacg tcagagtcga aagagatgaa   240

gaaggaagct tcaccttggt taattgttgg cctcggcaat ccaggcaaaa agtacgctgc   300

cacccgccac aatgtgggct ttgagatggt tgataccata gctgaagctg aagggatatc   360

tatgaccact gtttccttca atccttatt tggaaaaggt tttataggtg atgtaccagt   420

catacttgca aaaccacaga cttatatgaa ttcaagtggt gaatctatct tngacgactt   480

gga                                                                 483
```

<210>   3992
<211>   489
<212>   DNA
```

<213> Glycine max

<223> Clone ID: jC-gmf102220061b05d1

<400> 3992

```
gagaatgcta atagcaaatt ttatagaaag ataagtaggt atattataca caataacttt    60

ggttaaaaat tacagatcgt tgagaaaaca gccaaaaaac tgttatttag tgtacaagaa   120

gcctagccga gccaaagaat ggggaaagga aatgtgatgg acagattcat gacatcaagc   180

cagagcaact cttgtatgaa tacatagtga tgaacttcta gtacatagta catggtgata   240

aagaattaaa aaccgtcgtt gagtgccgtg tgagctatca actcacatta tataatatta   300

taattcaagg tgctggaagt gctcaaaatt gatcaaacac cacagtatgt aaacgtacga   360

gtacctgaag attccaggca tcaggttcga attcattgtg ctgaaactgc tttctgaaag   420

aatggatgaa tacttgctca aacatagccc tatcaaatta aaaaacagag ctttggacga   480

gtttactct                                                          489
```

<210>   3993
<211>   517
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061b06a1

<400>   3993

```
agagaacgag aaaatgacat cgagaaagca atgctggagg ctgagaggga aagggaaaga    60

gaaaaggata ggatggctgt tgatagagca actttagagg ctcgtgatag ggcatatgct   120

gaatcttgtg aaagggctgc atttgaaaga gcaactgtgg aagcacggta caaggcactg   180

gctgaggcca gggaaagact tgagaaggca tgtgctgagg ccagggataa gtcaaacatt   240

gatgaagaaa ctatagaggc aagactgaaa gcagaacgcg ctgctgtaga aagagcaact   300

gcagaggctc aagaccgagc tatggaaaaa ttaaagaatg aaaggactgc atttgagtcc   360

agagaatggt tagcgagatc tgtatctgac aatttttgcg gaagaccaga ctcttcatcc   420

tacgatatgc tggatcctga gtttcagaac ttaagctcta ccacaggttc cagacattca   480

tattcacttt atggtgctgc ctctttttct gagagat                           517
```

<210>   3994

<211>   472
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061b06d1

<400>   3994

aacaattaac gatgttgata taagatatat aacatgaaca gcagcaaatg ttgcaccacc   60

aaaacaatgt tcaagtagtt aatgtatgat ctaacatatt ttcttgctaa acattgactt   120

tgacagcacc cacctaattt gttcagtttc ttggtccttt tattcttaaa attgattaaa   180

aagttattgt aacaataatt cccaattttg ctaacagaaa gccagtctta gccccatgct   240

ttatatctat ttacttttgt atttcttaat ttcttgctat accatgggca aaaaatttct   300

tcataaatac aaacacttat gagactatta caacagaaca tagactatga caaaataatt   360

attacggttt tggaagtttg gactgtgtgt cacttgggga aggaattacc cggccaaggt   420

gaagaagctt ctttcacact tgcagagaca gggagggaga aaaaacagac ct   472

<210>   3995
<211>   504
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061b07a1

<400>   3995

caaagctgct ccattttat acgaagatca gattcaggtc tctatcacca agatccaaca   60

acttctcaac cacaacgagt tgctattccc ttcgattcac gaacccagaa aattaaaaca   120

ttaaaaaaga tatcaagtat caaaatctaa acggcatcag caaacatgtc tcaacaccat   180

ggtgatgaaa tggagtatgc ggcagatgat aatgaaatgg cagaggtaga agaggatatg   240

tatttccgtg gcagggcatt tggtgaatca gattcggatg atgacgacga ctacgaatat   300

gacccttggg aaaaccgaat atcagatacc actgctgctg aagctaggag ggggaaggat   360

atccaaggta taccttggga taggttgagc attagtcgtg agaaatatag acaaactaga   420

ctagagcagt acaaaaattt tgaaaacata ccacaatcag gggaaatgtc ggaggatgaa   480

tgcaaagcaa cagataaagg gggg   504

<210>   3996

<211>   409
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061b07d1

<400>   3996

gtacaaactt ccttcatttt attaccatcg gaaagattaa aacagacatt gacagtcaat   60

gttatttagc atgaaggtgt acatcaaaca actgtagcat cctcaagcca tgctctacaa   120

tgtatgatga gacaatctac cggttttttct ggttttgcta tgatgtacca ccatactcga   180

atacctaaac aatagacaac acaacatgag ctgtaggtac ttacaaggtg taaggttaca   240

aatttacaag cagtcaaggt acatgtaatt tctgcgtcga ttgaactgta gaaggcttcc   300

ataggtgcga tcccaaacac caataaagag tgattctgtg tcagggctga aggatacacc   360

agagatctcc ccaaaaaaat cgatctcttg ctccttctca aacccatgc   409

<210>   3997
<211>   589
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061b08a1

<400>   3997

ccaaacccctt ggcggctgcg agacccgttg tgttctctct tctctctctt ttttttctct   60

ttccctctct tcttcgccgc tctttttagg gtttttctcaa ctcttcgatt tggggcttaa   120

accctcgctt ccgattcaga ttcggattta gggcttccgt ttctcgattc tgcctcccaa   180

gaaaaaccag atctcgtgat tgattattca tcatggccac tgttgctagt cccgcggatc   240

aagcaactga tttgctgcag aagctatcgt tggaaactca gcccaagccc ttggagattc   300

ctgagccaac caagaaggcc actgggaatc agtatggatc agttgattca ggaaatgctg   360

cgaatggcca gatcccatcg tatgatcggt ctgtaacccc agtgttgcag gatttattg   420

atcctactat gtgttacctc ccaaatggtt acccatccac tgcctattat tatggtggtt   480

atgatggaac tggtaacgag tgggatgatt attctagata tgtgaattcg gaaggagttg   540

agatgacttc cggagtttat ggggataaag ggtctctact ttatcacca   589

<210>   3998

<211>   469
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061b08d1

<400>   3998

ggtggccgcc ctttttttttt ttttttttt tttttttgcc agaaaaacac ccctattaca   60

taacagattg tccacaaata taattctttt tccactatgc ccaagtcaat caacagatag   120

aaaataaaca gaagactaaa ttaagacgaa aaactcaaac ttaaaatcca actatatttt   180

tcagtatttc ccaccttgct tctacccctg ttgaaagtaa caaagtaaag ctgctctgca   240

acaaagtaga tctaaattta caagacagga aacgaccaac aaagtgaaat aaaagaaaga   300

aaaagaaaa aaggcaaaga gaaggataaa cccgaacaaa aaccaaaaga tataagcatc   360

ttaggcagaa accctaaaac ccaaaaaacc ctatgagtaa agcctgttag gagctaacca   420

ctggtaacaa aacccaatga gaagggattg gtgctagcat tctatgaag   469

<210>   3999
<211>   555
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061b09a1

<400>   3999

atcgaggctc acgtcatcca accgtgcctc accgcacgga tacttgctga accgcgtcgc   60

cgagtacgcc accgccgcgg ctgctgctac cactcctccc tctcctcctc ctccggggaa   120

gaaggagctc ggcggcggcg ggaagatcac cgatgaattc accgggaagg gcgcgatcgg   180

gcaggtctgc caggtcattg gtgccgtcgt cgatgtcaga ttcgacgagg gtttgcctcc   240

gatcatgacc gcgctggagg ttctggatca ctcgtcgagg cttgtgttgg aggtggcgca   300

gcatttgggt gaaggcgttg tccgaaccat tgctatggat gccaccgaag gtgtcgttag   360

aggctggcgc gttctcaaca ctggctcccc tattaccgtt ccagttggta gggctaccct   420

tggccgtatc ataaatgtca ttggagagcc tattgatgcc aaaggagaaa tcaatactga   480

gcatcatttg cccattcata gagaagctcc tgctttggtt gagcaagaaa ctgcacagca   540

gaatcttgta ctgga   555

acggccggca cgcacctatt ttcttttttt ttcttttctt tattttttat ctctttttta   60

tcttttatga cttttttttt gtttctctgt cattaatttt catctcctct cattttcttg   120

cttaacatca attctgtttt tgtgatacta ctatataatc ccaccgaaac ccacgcccag   180

accccaaaca ccaccaacac accgacatac cacccaacaa aaaggagaaa aaaaaccaac   240

gcggaggccc gccccgcaaa aacaccgaag aagccaaaaa caagaaggcg ccacccccca   300

acaacaaaag ggaaaaaaag ccccccccac ccgcacgccc ccccaaaaaa aaaacaaaaa   360

accacaaggg gggcgggcca cacagcaaca aaaaaagagc cccacggccc acccggaaag   420

ggccaccaaa acaggggggg ggggc   445

cttctttgac tgttctccca caccacaccc atgacactcc tcctgctcct tattctcctc   60

tttcacgcgg cggaagccaa gggacagtgg cagctcctcc acaaaaacat cggcattgtc   120

gccatgcaca tgcagcttct ccacaacgac cgcgtcatca tcttcgaccg caccgacttc   180

ggactctcca acctaacccct ccccgacgga agatgccgca acaacccaaa cgagttggtc   240

gtcaaacgcg actgcaccgc gcactccatc gaatacgacg tcgcagccaa cacattccgc   300

gctctctttg tccaaaccaa tgtctggtgc tcctccggtt cggtctctcc cgacggaaca   360

ttagtccaaa ccggtggctt caacgacggc taccgtgcgg tcagaacctt caccccgtgc   420

cgctcgtgcg actgggcaga agttcagcat ggactcgcgg cgcagagatg gtacgccacc   480

aatcacatct tgccagatgg acgtcaaata attatcggaa gaagaagaca attcaactac   540

gaagtttacc ccaagacaca agccaagaat act   573

<210>   4002
<211>   452
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061b10d1

<400>   4002

gcaaagaaat atccatgaac tataattaca aacttcctag ggtattattt acacgcccca   60

taggccataa atggctttat ttgaatttta tcttcccata tcttacagtt taaatactca   120

ctcaagaatc tgttcactcc cagacattca caacaataaa taacttgaat aaaaagaaca   180

tatacgaacg aagttgtcga gcaggcagag acgagaattc acaatttcac accatctgga   240

cccaaatacc gtggcttgga acttcttgat ggaccacaaa cagcagatag aaacccggtg   300

gcgcaagaac agcggaagcc ggcgcggtaa cttaacctcg tgcgttgatt ctccaacccc   360

actcaaatgg tgcggcttca gcaccaacag cctctgattc atggagaacg agtgcgtgtt   420

aaatggcggc gccagcatgg taacagacac cg   452

<210>   4003
<211>   419
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061b11a1

<400>   4003

ctcttctctc ggtttcatcg ccatggatga agaagtgcgc aagatcttca gcaagttcga   60

caagaacggc gacggcaaga tctcgtgcgc cgagctgaag gagatgatgg tggcgctggg   120

atccaaaacg acgtcggagg aggtgaagcg catgatggcg gagcttgatc ggaacggcga   180

cggctacatt gacctgaagg agttcggcga gttccattgc ggcggcggcg acgggaggga   240

gctccgggag gcgttcgagc tgtacgatct ggacaagaac gggctgatct cggcgaagga   300

gctgcactcc gtgatgcgga ggttgggggga gaagtgctcc ctcagcgact gccggaagat   360

gatcggaaac gtggatgccc acagagactg caacgttaat tttgaaaagt ttacgaaga   419

<210>   4004

                                    1653

<211>   325
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061b11d1

<400>   4004

caatagctac taccccttacg aaactgtaat cagtttgttc actttcatta cacagatctt   60

agaggaatct gatgagcgtt ttggagatga aggtgtaact gaaatagtag agctggtgaa   120

gaaaacattg ccactgcctc tcaatatgaa gaaggaagaa atcaccaagg gtgacgaaga   180

aaccgcaaca ttactgaaag agagtgctac taccaccacc acctacgagc gagtcatcat   240

cttcttaaac tcttcaaaat tgacgttgtc gtcaccgtcg gcatccacgt ttccgatcat   300

cctccggcag tcgctgaggg agcac   325

<210>   4005
<211>   505
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061b12a1

<400>   4005

aattcggctc gagcacatat tacatcacca acaatcaaag ccatcacttt agtaatgcta   60

ttgattcttt cttttcacgt gtaaacacac aaaacaaata attttccttt ccatcggggt   120

ggtaatattt agacttttat catttacaaa catgttatta atattctatt gcattatgtt   180

atctattgct gtcctgtcat ataatcaatc ttattaatca tgtattttca tctgtcagta   240

tttctcttat ggcgtttatg ggatctcgaa gaatcatttt ccatacaagt gacacgtgaa   300

cttacaagag tggctaatca ctgagagatc tacacctcgt aagtgtgtaa cctactaata   360

ttatcgtatg agtcatacta tatatatcta tattgagaga gagagagaaa gatttcagat   420

tcaacttcca acgagactga gtgtggcatc cttatagatt ggctgcaata tacactctct   480

cattttttgaa gtatcggttg aaatt   505

<210>   4006
<211>   335
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061b12d1

<400>   4006

aaaaaaaaag aagaagttta tataacattc taaataaaag gtacataaag aattacatgt   60

tattagtatc aggtacaaac ataagattat ttcccgatgt agctgctgca ataaccacaa   120

ttgcgataat cgcatctgca atcataacca caattttata aaccttgacc ctaagggctt   180

tggtgcattg ttctaggata tatgcctata aacttttggc tttcggataa ataatcctta   240

atacttcaat ggagccgatg atgaaccaag gaattataag aacaaaacat tcgagccaat   300

caatcagatg gtccaggcat tttctcaggt accac   335

<210>   4007
<211>   604
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061c01a1

<400>   4007

cgatagagcc tagcactgag catcgtctag ctatctcgat cgaactgtcc aaggtcctgt   60

cacttctaat acacacgaca aaaccagcct ctccggcagt atacaccgcg ccgctctccg   120

cctccgctga tgcgctcttc tcctccctca tcgcgcccgc cgaccacctc ctcaatttca   180

gatcaagccg ccgtccccgc cacacatcac cgccaggtcc cgcagacctc tacgcttcac   240

acgtgtgcaa cgggctgacc gggtagcagt accggtccca acagggattc aactcaccaa   300

cacagcaccc cacaccgatc acagaggctg tgtaaaattg taccggtagt tctgtttata   360

ataacaattc tgcgtttgat atgtgtgtgc ggaagtaggt actgcaggcc atggcccacc   420

tacggtaaaa caatatacat gaacgtctgc tttaaaggc tggtgcttat gtggaaatct   480

taattataac tgtatgcacc tgcagtggtt gggttatcaa acatgccacc aaacaaccaa   540

gacccacgca gcggaaacag taacctagag cctcagtagc tgccataggg actataatcc   600

cctg   604

<210>   4008
<211>   497
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061c01d1

<400>   4008

gtcacattcc gttccaggaa ggtttcccgt catcactgta tgacgtcctc cttctttggg   60

ggggggggg gggggaagg tggagaatgc agaaggaaac tccccatcta gtaagataag   120

ataagataag agcgaatgag caatgagtaa gagagcagtc ggagggagcg tgcgcagata   180

tataaggtac gttagcagag gtggatcgca gggatactaa tggtgaatgg agggaagata   240

gtagattaat ttaatgacga gtaaggggta ggagataagc atatggagtg ggaaatgtgc   300

acgtagcgat accacgcgac gtattaccga ttagaggtgg acgtaaggga ggttataatc   360

gcagaacatg tataacgcgt aatattatat agcggtggtt ttaaggttag gggcaacgac   420

gttaggtgta ttttaatggg tgttttacga aggggggagc acttaagagc ccatcttagg   480

ggtaatgtta gatttta   497

<210>   4009
<211>   230
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061c02a1

<400>   4009

cctcacgcat tagctcgatt tcttgttctg cccttcactc tcttgtgtct ctttctgcgg   60

cgaccatctg agatcccggt cactcctctc gccggcgatc ccttagtcct ccctcatccg   120

acgagtgctt tccgatgcga atcatgccca gccttgggcc agcatgagtc ccgtatccga   180

gtatttggcc aagcttttgc tgattggaga ttctggtgta cgcaagtcat   230

<210>   4010
<211>   350
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061c02d1

<400>   4010

attactgatt atttaagcgg ggcgcattaa taccatacat tttcatctgt gcaactttgc   60

actacctgta ctagcacgtt atttatgtct gtgatacaca caattcagtg ccatgcattt   120

1656

ctgtacgaga tttacagcaa cttctaactt atttaaaaca tcataccaac ccaactagga 180

gcaattttca ttatacaatg acacttatct ttaaactctg aagcatgaca atggcggtgg 240

tcaccaggga ccatattctt atgcaatcta tgccacaact ggattagacg cacaagttgc 300

atcaccacac atgttctttc ccaatgccat tttgaagcac ccattttcac   350

<210>   4011
<211>   233
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061c03a1

<400>   4011

ctcgagccgc tcgagccgtg gagatagaag agctatagtc acaaaggatt ggaatacatc   60

ttgggttggc aatttgtact tatcagttgt aatgtcctcc cctgaataac cgacataagg 120

ttatggttct tgctcaaagc gcattccttc atttttgccc agttatgttt atcagaattt 180

ttgttgtaat tttatcatat catgtgaaat gatgcttaca agagaatctg ttc   233

<210>   4012
<211>   233
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061c03d1

<400>   4012

gaacaaattc ttttgtaagc atcatttcac atgatatgat aaaattcccc caaaaattct   60

gataaacata actgggcaaa aatgaaggaa tgccctttga gcaaaaacca taaccttatg 120

tcggttattc aggggaggac attccaactg ataagtccaa attgccaacc caagatgttt 180

tccaatcctt tgggactata gctcttttat ttccacggtt cgagcggttc gag   233

<210>   4013
<211>   541
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061c04a1

<400>   4013

1657

gaatgatgct tgctaccatc aaatcattag ccattggcta aacactcatg cggttgtgga   60

gccattcgtc atagcgacaa acaggcatct gagcgtggtt caccctattt acaaacttct   120

gtttcctcac tatcgtgaca ccatgaacat taattcactt gcccgcaaat ccttggtcaa   180

tgccgacggt attatagaga aaacattctt gtggggtagg tactctttgg aaatgtctgc   240

tgttatttac aaggattggg ttttcaccga tcaagcattg cctaatgatc ttgtcaagag   300

aggagttgct gttaaggatc catctgctcc ccatggagtt cgacttttga tcgaggacta   360

tccttatgct tctgatgggc tagagatatg ggatgctatc aagtcttggg tggaagaata   420

tgtctcattc tactacaagt cagatgaaga actttaaaaa gaccccgagc tccaagcttg   480

gtggaaagaa cttgcagagg tgggtcatgg ggattcgaat gataagccat ggtggcaaag   540

a   541

<210>   4014
<211>   469
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061c04d1

<400>   4014

aaaaagttca aacctgcatg attgcattta ttattttggt ttccattaca caaacatggt   60

ttattaatga caaatacaag tacattcagc cactccaaat acataactta aacatacaca   120

actgatgaag gaatcagatt ccttctattt cacatttatt taaagccagg gacagtactt   180

cagcaaccat agagccctta gatagagata ctgttgggaa ttcctctgaa agtcaatccc   240

tcctcactag aaggatagag caaagtgtaa ggcattttag ccggcccata gcggtttctc   300

aatgtctcat tattggtctt ctctataagc ttcttttcaa tctcttcaag attctttcca   360

aacctcttaa aggcctctaa tggcccggca tcagaagtcc agtagtcacc gccatctctc   420

tgcccaggta gaactcatca gatgcgtgcc ttgataaaat ttctataat   469

<210>   4015
<211>   581
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061c05a1

1658

<400>   4015

```
cttcctcttc ctcttcctcc aattacgatg tgttcctcag cttcagaggt gaagacacac    60

gtcatgcttt tactggccat ctctacaaag ctcttcatga caagggaatc cacactttca   120

ttgatgatga gaagcttcaa agaggggagc aaataacacg agcacttatg gaggcaattc   180

aagattccag agttgccatc actgtgcttt ctcaaaacta tgcttcttcc tcgttttgtt   240

tagatgaact tgcaaccatc cttcactgtc accagaggaa acggttgttg gttataccgg   300

tcttttataa ggtggatcct.tctgatgtga gacaccagaa aggtagttat gcagaagcat   360

tggaaaagct tgagacgagg ttccagcatg acccggagaa gttgcaaaaa tggaagatgg   420

ctctgaagca agtagctgac ttgtctggct atcatttcat agagggagat ggatatgaat   480

tctaagttat tgagaagatc gttgaccggt atttagggag attaatcctc gactttacat   540

                                                                     581
gttgccgatt accaggttga ctagagtcac gagtgctaga t
```

<210>   4016
<211>   433
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061c05d1

<400>   4016

```
acaacaagta aattacataa atataattca attgtttata cagtagaacc tgtaaggaca    60

aatctaaaac taaacaaaaa agtaagaaat gaatattata ttgaggtact tatttattta   120

acatttatct gtattctgaa atataaggtt ggcaaaaagg gggacaaaca cgaaaaattt   180

tcacaggctg ccgtttcatg gataaaccga atttggcaaa ggaatcagca gcataatcgt   240

tatcgaagta taagtgattt gtagcagagg ttagagcttt caactcatca cacagtggga   300

aacaatgctc cagcgatgta gatgtagggc atccatctaa cacaaaccca atagctttct   360

cagagcccga ttccactatt attttaccaa aatcatgctg ccttgcaatc ttagcactta   420

                                                                     433
ttggaatgct atg
```

<210>   4017
<211>   543
<212>   DNA
<213>   Glycine max
```

<223> Clone ID: jC-gmf102220061c06a1

<400> 4017

```
gttggggtga agtttctccc aacatggcct tttattggcc gtttgcgtgt atgctttgtt    60

gaacctccat attttcaaat gactgtcaaa cctatgttta ctcatgggct tgatgtgact   120

gaacttccag gcattgctgg gtggctagat aagctgctgt ctattgcttt tgaacagacc   180

cttgttgagc ccaacatgct ggttgttgat gttgagaaat ttgtttcacc acaacaagag   240

tcttggttca aagtgaatga gaaggagcct gttgcttatg caaaagtgga agttattgaa   300

gcatctgaga tgaagccatc tgatctaaat ggattagcgg atccttatgt gaaaggtcaa   360

atgggtgtat acagattcag gacaaagata caaaggaaaa cacttactcc aaaatggcac   420

gaggaattta aagttcccat cataacatgg gagtctgata cgtgctggt tattgcagtt    480

cgtgacaagg accatttcta tgatgatatc cttggggact gtaccgttga catcaatgaa   540

ttt                                                                 543
```

<210> 4018
<211> 523
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220061c06d1

<400> 4018

```
attccttgta taaagttatt tacatgctta caaactacag cacctgaaac atgaacatgt    60

ttatgtaaaa cggtctatga cgatcacagg actattacta caatcaaaat ctgccaagta   120

ctgtagaaac actcacttgg aagactgtat ataagaacac gggtatgaaa tgctggagaa   180

aatatgctat atgctacttg aaactttctt cagtaggaca aaccgataga atctctttta   240

tctgtgcccc catttcctct ttatcatgct ccacttcagc agatttaaca acttcttggc   300

tagacctgtc aggggagcat gcattttcag ggtcatcttt ttcattcgtg attttagctg   360

tggcttcatt gtccaaatta gtgtttgatg gaactatttg aaccacgttc accccagaac   420

caggggaacc attgctacct gagaccacag catgagaacc aactggagtt tctattacat   480

ctatgggaga ttgagctgca atagattcct cgtcagaaga gtc                     523
```

<210> 4019

```
<211>      589
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220061c07a1

<400>      4019

cttagcagca gtagcagaaa tggctaccac ttctgcttca ttcgctcgct tctccgtgat    60

atcgcgacct tcttcgtcaa atccccaatt catcctcttc aacgccgctc cccgaaccgg   120

aacccctcat tcccgaaccg gttcggcccg gttcaggtgc ttggccggcc agaccgggtt   180

cttcacgaaa ctagggcggt tgataaagga gaaggcgaag agcgacgtgg agaagctctt   240

ctcgggattc tccaagaccc gcagcaacct cgccgtcatc gacgagcttc tcctctattg   300

gaacctcgcc gacaccgacc gcgtgctcga cgaactcgaa gaggctcttt agagtccga    360

ttttggacca agaatcacta ttaaaatagt ggagaatttg cgtgaggata tattttcagg   420

gaagcttaaa tcagggaatg agataaagga agcactgaag aggaaccgtt tggaattatt   480

aacttccaag gggagttaaa ctgaacttta acttggatac aggaagccag ctgtaataat   540

gatagttggt gttaatggcg gagggaagac tacatctttg ggaaaagct                589


<210>      4020
<211>      525
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220061c07d1

<400>      4020

caaagaaata aaaatttgtc attaatcaga agttgacaga caatggagca atgtgtttac    60

tgtttacatt ttcctttcta agtatcatct acacgcacac cacaataaaa cccttctgtt   120

cataaacagg agtgattata aaccccattt ctcatttgca tcgcgtcaga atcttccagc   180

tacagcatgc aaaatactca gcgttcctca agcaacagct ctgcacctca aaatcatgta   240

cacttattcg caatgcttgc cccccacccc caaataacgg tttccataat caagtgccat   300

cttttcctgtg acctggtgtt gctctgaata ttccatgtca agctgtttct gctaataaat   360

gattcaaacc cacaatattg gtttacataa aaatggcatt gacaaaggct tccgcatcaa   420

aaggttgaag gtcttcaaca ccttcaccaa cacccacata ttttacaggg attccaagct   480
```

1661

catcaaccac gcttaccaca cagccacctc tagcagaacc atcca   525

<210>   4021
<211>   349
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061c08a1

<400>   4021

ctccccactc attttcatct ttttcctctt cctccctcct agactgttca ttttttctca   60

cttttcccct tccttctccc cctcacaaga cctcccttct cccccttccc tcccggcacc   120

ggtggccttc cccctccctt ccgacaccag caaccttcct tcccccttcc agcacccgca   180

acccttcgcc tccccctcca tctcccccta gcgtgacctt tcatctcccc ctcccccctc   240

acgttacctt cttcttcatc cggcaccacc agtccacaac ctttcccctg ccccttgcac   300

aaccttgctc cgataaagca acctctaaaa ccaaccatgg cagcccagt   349

<210>   4022
<211>   496
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061c08d1

<400>   4022

atctcgtgtg tttagtatca taaaaatatt ggagacctag gcgaattcta gcatgcgaaa   60

gtgaaacttc ttttgcacgt acgaaaataa atattaaccg tttgatactc tttaattttc   120

atcgcatgac tcaaattttt taacattttt gcttttcttt tttctctttt tatgcctatt   180

tttccttaat tacccatttc ttctactttc cccttctttg ttctttccct ccagcacccc   240

agatccgtca tcatcctcat caaggtcgac tccccagtcg accataccat cgtcgccctc   300

ttcgaccacc tcgaccccga cgactacatc atcgacaacg acaacgagtg gtacaagaac   360

atcgagcgcc gcatgaacca acgagggctc cctccctctc acgagccaat acacttcttg   420

cgacttcgtt ctctccctcc agcggcccaa atccgtcatc atctcgtcaa gaccggctcc   480

ccagttgacc acacca   496

<210>   4023

```
<211>      539
<212>  ·   DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220061c09a1

<400>      4023

gcaatttggc cactatgaac acagggcttg ctgcaggtgc agccttgctt gcactcttgg     60

ctatcacctt ctccttgttg agccctcaaa ccctgttttc tccgcctgag attccgggct    120

cgaaggacca ccttcacgct gctcggttac tccatgtcac cggagccgtc gggccggaga    180

gtcttgtctt cgacgctgac ggcggagggc cctacaccgg cgtcgccgat ggccggattc    240

tcaagtggga aggggaagag cgaggttgga ctgaatttgc tgtcaccagt tccaataggt    300

cggactgtgt acgcccattt gcaccagagt tggagcacat ttgtgggagg ccattaggac    360

taagatttga taagaaaagt ggagatctgt acattgctga tgcctaccta ggcctaaaag    420

tagtggggtc tacagggggt ttggccaccg aagtggtaac agaagttgaa ggtcagccct    480

tgcaattcac caatgacatg gacatcagtg aagatgcaga cgtgatatac ttcactgat     539


<210>      4024
<211>      434
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220061c09d1

<400>      4024

aacgtagggt tttattaata atgaaccccg taaaaacttg ccttattaac cactcaaagc     60

atttcacaat tctacataat ctggatacgc ataactacc ttttatttgg aaaaggggat     120

ccaaaacagg cccctttagt catccatgat acccttttat aaaccataaa tgccaatgaa    180

agggctcaac cctggtgcaa tccaaagctt cccatttttt tcttgcactt tactggtgaa    240

cttcaagggc ttcccattac aatttttcaa gactttaaa atccctcctt tatcactcag    300

gtttacagca gcagcatggg ggttccaccc tgcaaatgat gtgtgccgct gcttgaaatt    360

aaatcccatc ttaagcaatg ccttttccac ccaagggttg gaagaaaccc actttgcgaa    420

agggcttttc tttg                                                      434


<210>      4025
```

<211>   574
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061c10a1

<400>   4025

caaagcgcac ccattttctc attcaaaaac tcttattatt tttcactcct tcctacacaa   60

attcccatgg cggccctcgg tagatcctcc gctgccgcca ccacctccct ctcctcctcc   120

tccgcccgat tccgccgctc cctccaccta ccgccttccc aactctcctt cccgcgcgcg   180

cgcttttccg tcaacgccac gtgccccttc ttctccgata acaatggcaa taagatttcc   240

cttccccaag acgtcgtcgc ttccaaaccc tcccctctcg agttgctcaa aacttccgcc   300

gccgacagat atacgaagga aaagagtagc attatttgca tagggctgaa cattcacact   360

gctcccgttg agatgcgtga gaagctttcc attccagaat cgcattgggc tcaggtcatc   420

aaggaccttt gcgctttgaa tcacatcgaa gaagccgcgg ttctcagcac gtgcaatcgc   480

atggaaatct atgttgtggc tctctctcag caccgtggtg ttaaggaggt tactgattgg   540

atgtctaagg tgagtgggat ttcaatacct gagc   574

<210>   4026
<211>   514
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220061c10d1

<400>   4026

gactcactta tactccactc taacattgat gttattaaaa atacaagaat catctgttgt   60

caagaggatc atgaatttac aactgctcta tatcaagctc attgagaaaa atataacatg   120

ttgaattcaa ttacttataa tgttaaaaat aattgaaaaa aattagcctt caaagggcct   180

caatcaacta ctgtagtgta caaaatggcg aggattgcag cccccacagt aatcaaataa   240

aactaaacca attgaagaag aatctacttc tgaacccgtt ccatcttgac tctgatcttt   300

tcttcgatca aggaagtttc tgtctcaaga tcatacattc tgttaagggc gcgcatattc   360

tcaagtactt cactcagact actatcattt ttcccatcac accttacgtg ctgcatggga   420

ccatgaagta gcttattcac aatacccata ctaagggcat aaattgcatc tttgtgttgc   480

tttgagacat canggcccat ctttcgacaa cact   514

<210>   4027
<211>   533
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061c11a1

<400>   4027

gtcttacagt tgagaatgta cacatggttg aggtggttgg ttctggatct cgtgtgccag   60

ctataaacaa aattttgaca gagttcttta aaaaggagcc taggcggaca atgaatgcta   120

gtgagtgtgt tgccaggggc tgtgcattgc agtgtgcaat tctcagccca acttttaaag   180

tacgggagtt tcaggtcaat gaaagctttc ctttctcaat ttctctctcg tggaaaggtc   240

caagttctga tgcacaggaa agtggaccaa ataatacgca gagaacccct gttttcccca   300

agggaaatcc cataccaagt gtcaaggcac taaccatcta caggtcagga accttttcta   360

ttgatgttca atatgatgat gtgagtgaat tgcaaacacc tgcaaagatc agcacatata   420

ctattggacc tttccaatct acaataactg aaaaagcata agttaagtga aagttcgttt   480

gatcttcatg gaattgtatc tgtcgaatct gcaactttgc tggaagagga aga   533

<210>   4028
<211>   303
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061c11d1

<400>   4028

aaacaagcat tgtaattcca cttatagaac gtagatttga ccaaaaataa tccgaatctc   60

agataattca cccattacca atttttccag caaagaatcc cagcatcaac tctcacccac   120

gacgattttt ccaggtacaa ttcaaattgt tatacaaaac gtagagacca gacaaaatca   180

acaaaaatta agcagagcct gtgttctctg gtttgtcagt ctccattggt tcagcagatg   240

ctggtggtgg ggctggatta gcattgtccc ctgccttttc attagtactg gcattaggat   300

tct   303

<210> 4029
<211> 386
<212> DNA
<213> . Glycine max

<223> Clone ID: jC-gmfl02220061c12a1

<400> 4029

```
ctggtggatt catatccaga gctcagtgga tgagggaagg ctaattgctc caaccccacc   60

tgcttctcct ctgactcagt ttagtgaaga gagttggact tctctttcaa cccagaagtt  120

ctccatggaa attgcttcac caacagtaga agatcacatc cttgactttg ctcttctata  180

cagaagaaac caaaatgatg gacaacttat cctgcttagt gaggatgtca cattgaaaat  240

caaatgcatg gcagagggdt tgctatgtga accagtgcaa gagtttcgtg agagtctagt  300

gaatccattc tctgagaggt tcttgtggga caaaagcatt cctcgaggac agacttggtc  360

ttgccaagac gacgtagtct taaggg                                       386
```

<210> 4030
<211> 408
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061c12d1

<400> 4030

```
acactagata aattcatgaa attttatttt gatgtagtat agcactattc acaatccctg   60

ttgtgaggag ggttttttaag acgttgctac cagctggcta aaatctaatt gattaatatt  120

tataggtaat gtttgcaata aaaaaaagtt taaggcattg caaccagcaa atgagaatac  180

tgtggtcaat caaaactgtt cagctggctc aactgaactg tttttgccac tggctcagag  240

tccatattga gagttgtgaa gtagaattag cttcaaaccg cttgcaactc cctttgatgg  300

cttccttaaa cgacaaaatt tctcccttaa gactacgtcg tcttggcaag accaagtctg  360

tcctcgagga atgcttttgt cccacaagac cttttagaga atggattc                408
```

<210> 4031
<211> 350
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061d01a1

<400>   4031

gatagagata acactgagca tcgtctagct atctcgatcg aactgtccaa ggtcctgtca   60

ctattttgct gagcgagcga cttagttacc tgcggtgggt atgggagcta acgcgcgtcg   120

ataatgccga ggcacggcca ggtgccacag ccgcagtact tatatgcggt ttgagtgagc   180

acccggagct ttgtttatag gttagttggt cgtggcagtg cctgccgtcg cattgtatac   240

agggtggcag gaaaagtggc atgcacatcg ccggaggttg gtattattgt acttcagtcc   300

caaaggcgaa cccagcgcaa acaaacgtgg gtggataggc tttggcatga   350

<210>   4032
<211>   414
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220061d01d1

<400>   4032

gtcaacattc cgttccaagg aaggtttccc gtcatcactg tatgacgtcc tccttctttg   60

gggggggggg gggggggggg ggggggccgac ggtaatccag caaccaggag aaggagctag   120

aataacccga taactcgacg ggcagaagtt actgaatgta gatgtacaac gaattacgta   180

aaaatggagt aagcgagagc aaaacaatgc cattagggaa aaaaaaaaaa aaaattaatg   240

tgttgtatgg gtggtaaaga aagcagtatg ttaataccac aagaatagca aaaccagaat   300

aaacctgaca agcaaacccg gataagtgct aacgtagcgt ggttacataa agtagcacca   360

gaccgacgtg ggcntggtaa gaatttgagt gtgtaaatac ggggacaagt atgg   414

<210>   4033
<211>   160
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061d02a1

<400>   4033

aaactctgtg cagtgaaggc actttgaatc tgaaaaaaga ctttatgcct aaaaatatat   60

agctcctgtt agattggaca tagacacagc gcacctcgac atggaagctg aggacagtca   120

```
tcgcgatctg aatcacgcta ttttaagaga aaagatctaa                         160


<210>    4034
<211>    136
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220061d02d1

<400>    4034

gagattcaaa ttgccttaac tgcaaaaagt ttccatgact aggggccctc tgtttatgga    60

caaactgaca ggaactttct attattgggc ctgaaaactt ctttgagatg catattgcct   120

taactgcaca atgttt                                                   136


<210>    4035
<211>    423
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220061d03a1

<400>    4035

gattgctaga atggaatttc gatgctcagt catctctttt accattctct tctctcttgc    60

tcttgcagga gagagccatg tccatgcatc gctacctgag gaagattatt gggaagctgt   120

ttggccaaac actcccattc ccactgcact gcgagagctt ctaaagcctc tccctgcagg   180

tgttgaaatc gatgaactcc ctaagcaaat tgatgataca cagtacccaa aagcattctt   240

ctataaagaa gaccttcatc caggcaaaac aatgaaagta caattcacca agcgtaccta   300

tgcacaacct tatggcgtat atacatggtt aacggatatt aaagacacct ctaaagaagg   360

atatagatgt gaagagatat gcatcaagaa agaagcgtct gatggagaag agaagttttg   420

tgc                                                                423


<210>    4036
<211>    418
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220061d03d1

<400>    4036
```

```
aaaaaagccc actgcatatt catcaaagca tcatcaaagc acactgcatc ctaacagcac    60

acgtacgtag aaaggggaag ttccaggtct tgcgcaacat acacaacaca ccataattta   120

ttttatatcc aatcttatgg cgcccaaaat gcacatgcat ggactaatta aacaacaacg   180

ttagtctgat aggcagtgtc catagataaa ttgggttccc ataaaatggc cttgcttcca   240

aggaaatggc acacagggtt agttccagga tcaactccca tgagttcatg aagcctgtga   300

tgattcattc cagaagtatc tgagtggcaa acagcatgtg cctgagacct gggtccatat   360

ccagccacca atggaaccat gaaagctgtt gtttcacgga ctttatggca cgaaaata    418
```

<210>   4037
<211>   549
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061d04a1

<400>   4037

```
aattcagtta acacaccaac cccacatcca aagcttcagt tcaatatggc aaccttgtca    60

agttttgctc ctttggccat tctaagttta gttctagtaa ttagtgccat tgtctttgag   120

gctgaagcta ggccaaggac attctttgta tttggagatt cacttgttga taatggaaac   180

aacaattact tggctaccac ggcacgtgcc gatgctcccc cttatgggat tgattaccct   240

ccaagtcata gaccaactgg tcgtttctcc aatggctaca acattcctga tcttatcagt   300

caacgacttg gtgctgaggc tacattgcca tacttgagtc cagaattaag aggaaataag   360

ctccttgctg gtgcaaattt tgcttcagct ggaattggaa tacttaatga cactggaatt   420

cactttataa acgtaatcag aatgtatagg cagctacaat attttaaaga agtcccaaac   480

cgagtgagag ctataattgg agctttacag actaagagct taatgaatca agcactagtc   540

ctcatcact                                                           549
```

<210>   4038
<211>   428
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061d04d1

<400>   4038

1669

agaaaattaa gtaacatttt tttaatattg agactcagga atcacttagt acttcccacc   60

atttatatat atatatatat tcttcgttgt aattttatgc aaaaagggaa gtttcttcct   120

ccctttaact ttctaattcc ccaattagat attgaggaat acgaaattaa atcacaatta   180

caataataaa aaagggacat aatgaaacta gcatgcgagg tgcatagact tattggtgtc   240

ttcatgtggt aatagcatcc aaagccagga tggtgctgag gttcattggg ttcatgtaga   300

ttttagaacc tgacataatt tcttccacaa taagcctatt ggcctttttca gatggatgga   360

atgcatccca aaatgcatat tggtctctat tggggcaaag gttggagagt ggtgtgcata   420

gcccaaga   428

<210>   4039
<211>   530
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061d05a1

<400>   4039

gaaaaacaca cacacaaaca ccctttgagt tcattaacct cttcagaaaa aaacaacaac   60

aacaacaaaa aaaaacatca tcatcaaaaa aacttccgag agtttaatgg caacacgcgt   120

gatccctcca agaatcctca agaagctccg ttacaacaca acaaccaagc cactcaacgc   180

tgcccacccc tcaatctctc cagtcatcgc cccaccgtca ctcttcgaga ggtcgccgtc   240

ccctgtcgcg gatgctgttt caacaacatc cacgactatg gagacggcga atctcaacct   300

cgacgacgcg gagcggcttt tcgcgtcagt atcgacggaa aagctgctcc ggtcgtccgc   360

ggttttgcat gcgacggcgg tggggcccat ggtagacctg ggaatgtggt tgatgaagtc   420

tccggtgttc cagaccgggc tgccgaagga tctcatcatg gccgccacga aggagacgtt   480

cttctcgcac ttctgcgccg gcgaggacgc cgacggcgcc ggacggagca   530

<210>   4040
<211>   502
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061d05d1

<400>   4040

1670

```
gctcaacaca aaagatccgt tgcatttcca acaaaaccta cataacaaag cagaatttca    60

tttgattgaa tgcacaattt cttcacatta caaaactctc taatttgtac aaaaagtcaa   120

tgaatcctga tttctgacaa atttagaaca ttgcagcttt taatcttctt cccaactcct   180

ttctcatcaa ttgcctatca aaacctgatg cagccaaaag ccctctattt tcttcagccc   240

ttctcagaag gtaaggcata accatatcta ccggcccaaa tggcatatac ttgctaactt   300

gaaaccctgc attgctcaaa ccaaaggaaa gtgcctctga cattccatac agttgtgcaa   360

attctagctt gtggtttacc tttccaaccc ccaattcata tgcttttgct gcagccaatt   420

tccctgattc aatattgtga gttgcaagaa caactgacat cgaaccgggt ccattagcaa   480

tcttctcaag aagaaatgat ga                                          502


<210>    4041
<211>    498
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220061d06a1

<400>    4041

accaaatcaa agacacctga gccattcaat tcccctcctt tattgctttc aagtttcaac    60

actaatttta ttatctgaaa aaatggcttt caaagtttcg tttttccttg cacttgttct   120

agtttccaat atcctcctcc ttgatacaac agctgctgga cgcagcattg gcgaaaactc   180

caacttcaga ggaaaagaaa gagcctgagt tcttgttcaa gcttgaaggt ggggtgtata   240

ttccagggat tggacctgtt ggatttccac ataaatttca tctcacacct aaaatccat   300

tacctggtgg caatgaaaat ggaggaccgg aaccgcaaca ggatcaggat caccaccagg   360

tagcagttat gttcctggtg gtgatgacac tttttgtccc aaaccctggt tatgaggttc   420

ccattcccgg cagtggtgga agtgttccag caccagctgc accatgagtt aactcatgca   480

tgaataatgt gatgcatg                                              498


<210>    4042
<211>    469
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220061d06d1
```

<400>   4042

aatataatgt accatacgta aaggtgtgca cctattatca ttcaaggaac aaacacataa   60

aactgtgcat gaaaagagaa tatcaaattg gaatcataac agaaattatt tttgaggact   120

cattcatcag caactacttc gaaaaacaaa taagcttacg tcacactcaa ttcatcttaa   180

aacaagacta caagaacaaa cagaatgact tggcaatcca tggtgttcac catatacacc   240

aatgtgcaca tggagcatac ttatttatga taagttatta ttatggctag aaaacagaaa   300

gaaaaagaca aacttaagca taaccacctt attaactacc atgcatcaca ttaatcatgc   360

atgagttaac tcatggtgca gctggtgctg gaacactttc accactgtcc ggaatgggaa   420

cctcataacc agggtttggg acaaaagtgt catcaccacc aggaacata   469

        <210>   4043
        <211>   582
        <212>   DNA
        <213>   Glycine max

        <223>   Clone ID: jC-gmfl02220061d07a1

        <400>   4043

agaacatgtt tcagagttag aattgcaagc tactgaatct aaagctgaat atgaaaaaag   60

aatagaggga cttaagcttc atcttgcaga tgcaagaatg caagtgaagg aactagaggc   120

attttccgaa tccagatttt tgaaatggaa gaataaagag gatacctatc aaactatcgt   180

aaatttccaa gttggagctt ccaggaact gagagctgcc atgaagtctg tcaaagatga   240

tgtgataaaa acaaaaagaa actacttaga ggaattcaag tactttggaa tcaagttgaa   300

aggtctagct gaggctgctg aaaattatca tgtagttata gctgaaaata ggaaattgta   360

taatgaagtt caagatttga aaggtaatat aagggtatat tgtcgaatta agccatttct   420

tccagggcaa agtcaaagcc atacaacaat tgagtttgtt ggtgatgatg gagaactgat   480

tgttggcaat cctcttaaac aaggaaaaga aaatcgcatg ctttttaaat taataagggt   540

ttcggtcaag caacaagtca tgaagaaata ttcaaggaca ct   582

        <210>   4044
        <211>   473
        <212>   DNA
        <213>   Glycine max

1672

<223>   Clone ID: jC-gmf102220061d07d1

<400>   4044

atacaacatc gtagataaac attactgaat ggaaagttgt aaatacagca gattcagtaa   60

tatggcataa aaggccatga tgcttacata caaactggtt acaagctaga gtttgcaaat   120

cgcctcattt aataacagat tgaagctgaa atgagctgac ccttgagcct tgagtacagt   180

gtaatagtta gaatgatcac ctaacataaa tagaaaaaag ttcctaacgg ctatctctat   240

aaataagcac tctacagcat caagtggcat cctaactatt gccatcgttt aggggcttc   300

accgaagaag agctactggc tgcaggtttt ctaacacttg acagaacctt cgaggaggtt   360

ttgttcaatg aaagcctaga aggtcttgac tggactttct gtgggacttg agcagctttg   420

ggaattttgg atggcataat aagcttttct gtgctctcag ctggaaggtt gtc   473

<210>   4045
<211>   528
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061d08a1

<400>   4045

gagaaagaac agcaagcaat cgttacccat tacctatttc actttccaca ccactctcat   60

cctatatctc tttcttcctt attcctctgt caagccactc gataatatgc agagtctttc   120

accacctact tccaacgcgc tcaatttgaa gcatgttttt cgcccgcgac ttggcgcgtc   180

aagccgaatc tctgtcaaat gcgcttttgg gtttgagccg gtgagctacg gagtcggctc   240

cagccgagcc gattggcaga gctcctgcgc catcttagcc agcaaggtcg tttctcagga   300

acaaccctcc gctgaccaga acagcggcac caccgaccac atcgccgccg tcaacggtca   360

caaagccgcc gtcagcgact tccaactcgt tccaattgga aacctagcag aggccaacaa   420

caagccgctc ccgccgaagc cgctcacgat ctccgacctc tcgccggccc cgatgcacgg   480

ctccaagctc cgcgtcgcgt accaaggcgt tcccggcgcg tactctga   528

<210>   4046
<211>   555
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061d08d1

<400>   4046

gactcgatct tcgtcaaact gatgttgcga aacgcgaacg cggaaagcac tttgaaaagc   60

accgaagttc ctttgtcgtg tgcgaaaaca atgctcgtct tgaaaggacg gtccgtgcgc   120

gggatgatag gctctctcgc gagcatcaca aaccgcgtga cgttgctcgg atcgtcttgg   180

attccgtccg ccatcacgtt caggccgtag agctccgccg cgcgtgcgct cgcgatggcg   240

gcggtgtcgc ggagattgtt gctggcgacg aactcggcag cgccggcggt gtcgtccacg   300

gcctcgcgcg ccacgttcag gccgagtttg gtgagagtgt gctcgcactg cgcgagtgcc   360

tgcggatgcg aaatcacgcg cgtgaggaac tcctttcgga cgccggggag agcgaggagg   420

cagtgatgga ccgggagctg gacctcgcca actatgtgaa ggcggtggcg gatgatgaga   480

tcgtagttcc ggtggatcga accgtcgagt gagttttcaa ccggtaaaac cgccgatcgg   540

cgatccagag cttca   555

<210>   4047
<211>   88
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061d09a1

<400>   4047

gaaatatgta ataatctcaa attatagaga gtatacaatt ttactatgtg aattgcagta   60

ctttcacgga attcatttgt agtctagg   88

<210>   4048
<211>   93
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061d09d1

<400>   4048

cctaaactac aaatgaattc cgggaaagta ctgcaattca catagtaaaa tgggctactc   60

tctataattt gagattatta catatttcct agc   93

<210>   4049

<211>   502
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061d10a1

<400>   .   4049

gtgaagcctt aactcttctg cttcttccgt gttcagatct cgttgttgtt gcttccgatt   60

ctttgattct tcgcttttttt cttctcactt cacattccga ttcgtcgcag attctttcag   120

tttctaaact tgatgatcgc cactgcctcc acctgtaatc gttagttgaa gtcacgtgag   180

gtggtccaga gaaatcaaaa tctccttcaa cttcgtcttc cctttaggtg taaaagtcag   240

ctaacgataa agaaatgaaa tcgctaactg ttaatactga agattctttt tccagtttgc   300

tggaacttgc ttctaacaat gatattgaag gcttcaaggt gcttttagag aaagattctt   360

cttcgatcaa tgaggttggg ctctggtatg gccggcaaaa cggatcgaag caatttgttc   420

ttgagcacag aacccctttg atggttgctg caacttatgg tagcattgat gttatgaaga   480

ttatactgtt gtgccccgag gc   502

<210>   4050
<211>   460
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061d10d1

<400>   4050

agaaaagaaa aacattgcat ttgatttgaa tttgaaacga aatgattttt aaccagtaca   60

attcaaggga atacagctta ataagaagaa cattgtaaac ttcactatct catttatctg   120

ctggaaatat tcaacagggc agattacctc taattattcc ctcagaaaga aacaactttt   180

tcaaccttag gcaaacagca aatcattcac ttggcttaac ttggggaact tcggaaaaat   240

ctttagaaca aacgcaggct aataatgggt tttgtcgcat tataaaccaa actagcttgc   300

ttgatagtga actcagaact ctagcttgct tgatagtgaa gtgaactcag aactctagtg   360

aaatagcaag ggcgaaaacc ctgaaacggg gcccgtttgg aagaaaaata gataacctcg   420

ataggatttt tcgcctacta ttaattgatc agccccaggg   460

<210>   4051

```
<211>      531
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220061d11a1

<400>      4051

ggaaggggca tctctattaa ttcacatcac actatttcca aaggaaaaat gtcagcagat    60

ttggagaggt cgacttctag gattcctcaa cttgatggac caattccata tgatgatgat   120

gatgtgctct ctactccaaa tatatacaac tatggagaag tgttcagtga agactacaac   180

atttctaata caccagctcc tcctgaagta ccagcaagca cccctgctct cttggttcag   240

aatgaagtgg gtaatgattt tgatgatgat gatgatgatg aacctccatt aaatgaagag   300

gatgatgatg atttagatga catggaacaa ggagaggatc aaaatacaca tcatcttgtt   360

ttggcccagt ttgataaggt gacacgtacc aagagcaggt ggaaatgcac attaaaggat   420

ggcatcatgc acataaataa taaggacatt ctcttcataa ggcgacagga gagtttgaat   480

tctgattttg gtggggctgg cgctttcgtg aaatatgaat tcgaggtgtc a            531


<210>      4052
<211>      411
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220061d11d1

<400>      4052

atcaaactgt ttcttttaat ttaataagaa aaaaaaacat catcctgttt tttaatgtca    60

aaaagttacg cgaggcctaa caagcctatc tatcattatt atcatacaag ggattcttaa   120

attcactaaa atgttcaagt atacagaact aaagaaacca catacttgac aaatggtggg   180

cttaaaggaa atgcccgagt ctctaaccat cagttaaagg caaaaaattg ctcattctct   240

atgtacaaga ggccaacatc acaatagtct cgaaagggta aaaatattcc tatcttcatc   300

aatctttcac ttaataatta taatcaaaga aagggatcat gaaacacaca atgacacctn   360

cgaatcatat tttacgaaag cgccagtccc aacataaatc gaattcaaac t            411


<210>      4053
<211>      490
```

<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061d12a1

<400>   4053

ggctcgagat tatttactcc aaagaacagc actagatgct ttgagagtaa tagaggttga   60

actcaacttc atctatcaag ctttctacac caaggcatca gtcataacca acaaggtagg   120

gttttttcttt cgattagggt cctttgcttc actcgtggcg gccttggtgg ttttttgttta   180

tgaccaaaag cgtggctcca atcccttttga tgttaaagtc acctacacat tactatatgg   240

tgctgtggcc ttagatctcg tgtccgcgtt catgctcatt ttttctgacc actcatttgc   300

attaatttac cctcacatct ctaaaaaaat tagtgattct gatggtggca aagaaacatc   360

caaattagcc tctattttaa gttgtttcct caagcttaag agaccgaaat ggagagaaca   420

gaagcttaag gagccaaaat ggcttcataa taagagctat aagatattgc gtaggttcat   480

gttagttcgt   490

<210>   4054
<211>   367
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061d12d1

<400>   4054

ttcgcccttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt   60

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttgggg   120

cccccaattt ttttctcccc ctcgcccaaa aaagcccccct ggaaaaaaaa aaaggggccc   180

caaaacaccg gtttttggaac ccctttgggg aaaaacccccc aaaacggaaa acctcgggggg   240

ggggcataaa tcccaggggc cacaaggaat ccccccaggggg tcttaaaaaa acccccggggc 300

ccaaacacat ccccaaaaat ttttttaaaa ggggggtcttt tttgtcccca attttcaaca   360

ttttttt   367

<210>   4055
<211>   92
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e01a1

<400>   4055

gaggctaaga ctgagcatcg tctagctatc tcgatcgaac tgtccaaggt cctgtcactc   60

ctgctattgt gcgcgacttt ggacgagagt ga   92

<210>   4056
<211>   540
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e02a1

<400>   4056

ttctcatctt tctctcttct ctctccaccc aaaccctaac tcccgaccct gttcccctct   60

cgtatccgtc atgaaaggag gaaagtccaa gaccgaatct aagagagccg atcccaaact   120

tgctgtgaat aagaagggag ccgccaccaa ggctaggaaa cccgccggca aggggaaggc   180

agcgaaagac cctaacaagc caaagaggcc tccaagtgct ttcttcgttt tcatggagga   240

gttcatgaag gtattcaaca gagaacatcc tgaaaacaaa gcagtgtctg ctgtgggcaa   300

agctgctgga gcaaatggaa gaccatgtct gatgctgaaa aagcacctta tgtggcaaag   360

tctgagaaaa ggaaagtgga gtacgagaag aacatgagag cctataacaa gaaacaggcg   420

gaaggtccta ctggtgggga tgaagaagaa tctgagaagt ctgtatctga ggtgaatgat   480

gaagatgatg atgaggaagg cagtggccat gaagaggatg acgattagag aatggactga   540

<210>   4057
<211>   316
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e02d1

<400>   4057

ggggccaaac aaaaaaaaaa accccttta accgctaaaa gggaatgata aaccaatttt   60

tttgatccca aattaacccg attttaacaa gaaaacctta aatcaaacca aaaggcctac   120

aagagaaaaa ccccccttaa ctaaacagtg gggtcttgaa gtcccaaaaa aaaaccccct   180

tttttaaaaa attcaccttt tggaaaaaca acccatttac ggggggggcc gggaaaaatt   240

ttttggaaac caaaaaattg tgtttcagga aaagcccaga ccccctacaa ccggggggcca   300

aaactattgg aacccc   316

<210>   4058
<211>   521
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e03a1

<400>   4058

gtggatcttc aagacctctt gcttcggctc acttttgaca acatatgcgg cttggctttc   60

ggccaagacc cgcaaaccct agccgtgggg ctcccagata acgctttcgc tctctccttc   120

gatcgagcca ccgaggccac tctacaacgc tttattttac ccgagatctt gtggaagctg   180

aagcgatggc tcaggctcgg aatggaagtg agcctgagcc ggagcctgaa acacatcgac   240

aattacctct cccacatcat caagaaccgc aagctggagc ttctgaatgg cactgggtcc   300

caccacgacg acctcttatc ccgcttcatg aggaagaaag aatcctactc tgaagagttt   360

ctccaacacg tggcactcaa cttcatcctg gcagggcgcg acacgtcatc ggtcgctcta   420

agttggttct tctggctctg cattaagaac ccgcatgtgg aggaaaagat ccttcacgag   480

cttctgcagt gttctcaagt ttacacgtgg agatgatatc t   521

<210>   4059
<211>   293
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e03d1

<400>   4059

cccgaactgc agcagcatta ctttttaatc atcaaaaggt ttacaaaaac ataaatagta   60

ttcatcatca gatgagaaac ttgggagtaa agggaaattt catttataca gacaacgtaa   120

attaaactaa cacagatgaa atgatccatc attgacaata ttctatatta agtaatatat   180

aaatttctta taattaatat tatttcttta tttaaaccga tgatgtatct atcggcttaa   240

ttaaccaaat caaaatcact tttgaccacc agtaatagca ccctcggggg ggg   293

<210> 4060
<211> 521
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061e04a1

<400> 4060

ggtctatgag aatcattgtg ctaggaatga ccgtgaggca gatcttccaa taacctattt   60

caaggagcaa ttgaaccaag ctatatcagg ccaaatatca ccagaagctg ttgtggatct   120

ccgtctgcaa gcctataatg aaataacaaa aaatcttgtt aatgacaaca tcttttcaca   180

gtatatgtac aaaactctac ctagtggcaa ccatagttgg gctttcaaga agcaattcgc   240

catccagtta gcccttttcaa gtttcatgtc cttcatgcta caaattggtg ggaggtcccc   300

gaataagatt ttgtttgcca agaacactgg aaaaatattt caaactgatt ttcaccctgc   360

gtatgatgca aatggattga ttgagtttaa tgagcctgtc ccatttaggc tgacaaggaa   420

tatgcaagcc ttcttctccc atggagtgga aggccttaat cgatcttcaa tgtgtgcagc   480

tgcacatgct gttgcttcac ctaaacaaag ccaggaccta t   521

<210> 4061
<211> 402
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061e04d1

<400> 4061

aaaaaaaggg tttccaccca ggggttaccg ggggccccc ggcaaaccgg gttaaaaaac   60

ccggggggtca cttggacaaa aaaacggccc cggtatatta aaaggggggcc ccccgggggc   120

agggtctggg gggtaaaacc ttccggggaa acgctttata gcccataaaa aaaaaaggga   180

ccccattta agggtttacc aggggggtta aacccaattg gggcgggga aatggcccc   240

cccttttgcg ggccgggtac aaactttaa agaatcagaa cttaaaaccc gggggggcccc   300

gggggggccc ttatgcccaa gtttcttggg ttcaaggggg ttttaaccca ctcaggaacc   360

ccccttttgga cagggtgggg ggggacccaa aggggttccc cc   402

<210> 4062
<211> 469

<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e05a1

<400>   4062

gcagtttctt cgattctctc tttctctttc ttcagaaaaa ttaaacccat tcaaagaaag   60

aaagaaagag cgatcatttc caatcacaat ggcagatcaa ctcaccgatg aacagatctc   120

ggagttcaag gaagccttca gtttgttcga taaggatggc gatggttgca tcacaacaaa   180

ggagcttggg actgttatgc gttcgttggg tcagaatcca acagaggctg agctccaaga   240

catgatcaat gaagtagatg ctgatgggaa tggcaccatt gacttccctg agttcttgaa   300

cctcatggct agaaagatga aggacactga ttctgaggag gagctgaaag aagcgttccg   360

agtgtttgac aaggaccaga atgggttcat ttctgctgct gagctccgtc atgtgatgac   420

caaccttggg gagaagctca ctgatgaaga ggttgatgaa atgattcag   469

<210>   4063
<211>   372
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e05d1

<400>   4063

aataataaaa taaaaaaata tatattggga aaaaaattga caaaaaaaac ataaaaaaaa   60

ccaatgaacc aaaaaaaaaa aaaaaaaaaa aagtttcaaa aaaaagggaa aaaaaaggaa   120

ataaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa agaaaatgtg aaagggaaaa   180

atgaagttaa aacaaaatta aacctgtgaa aattttccca actagaaaaa aaattggggga   240

aaaggggggac ccccaaaaat ggggccaaag aaccttaaaa aaacccggga aatttattgg   300

gggggcccaa aaaaaaaaag ccctataaaa aaactaaaca cccttttaaa aagggggggtc   360

cccccaaggg gg   372

<210>   4064
<211>   452
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e06a1

1681

<400>   4064

cgctttt ctt cgtttccaaa cccgaaaggc ccaaccacag agtctccatt gccccctcgct   60

ctctctattg gttcacgcgc ggcaattgga gattcacgcg ccaccatggc ctcaccaccg   120

acactcccta tctcctccca atccagcgcc tccggcggct ccgcctcgca gtcccagcct   180

ccgatcgcaa cgccggcgtt ccgcgccttc atctcccgca tctcctcgtc cctccgtcac   240

gcctttgcgc agcgccgccc gtgggcggag ctcatcgacc ggagctccat gtcccgacct   300

gacaccctcg ccgaagcata ctctcggatc cgcaagaact tcggctactt ccgcgtcaat   360

tatctaaccc taatcgcgct cgcgctggcg gtctcgctca tcacgcatcc gttctcgctc   420

tttgttctct ttggcctcct cgcgtcgtgg tc   452

<210>   4065
<211>   471
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e06d1

<400>   4065

cagctgcact agtcggcggc cgcccttttt ttttttttt tttttttttt tttttttttt   60

tttttttttt tttttttttt tttttttttt tttaaacaat taaatcggcc ctttacgaca   120

agggaaaaaa aaaaggccca tacaaatttc ccgaaaatgc cgaacatttt cagaggcaaa   180

atcaaggact aaaaggcctt cctggggggtt aaatagccca ataatttttg ggggaaaaac   240

aaaaggttgt aagcagtacc agaactaaac cctaagcaat tcgcctggga tctcaaaggg   300

caaaaaattt cgcaccaatt ttcaatttac cattttccac caaaaagggc cgacccaccc   360

tgaaaagaat cccccggaca cagggttcgt ccaaatcccg ccgtttacac ccgcgcaacg   420

gccggcccgg cggttgaagc ggggcccca ccggggaacg aggggaatcc g   471

<210>   4066
<211>   596
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e07a1

<400>   4066

1682

gtgagcaggc tcccggtcct gtccgacaag ctctgcggca agaccaccgc cgccagaatc   60

cagctcctgg gttgctacat gctgtacgag gttgtagggt tcacgcaaat ctcggggatg   120

cagattttgt acaagacctg tggggaacc aacgctgctg ggagagggtt tgaggagagg   180

agggacactg ctttctctgt gatggagaat ggggtggtca ctggccatgg attctatgcc   240

accagctacc agtctttgta tgtgatgggg caatgtgagg gagatgttgg tgattctgat   300

tgtggggagt gtgtcaaaag tgctgtccag agggctcatg ttgaatgtgg aagctccatt   360

tcaggccacg tctatttgca caagtgttgc attagctata gttattaccc taatgggggtt   420

tcaggaagac actgttctta gcttcatcat cgtgcaattc ctattcttct tcttcttctt   480

cttctggtaa atactaatac ctagacaccg aatgagatag gaatgaatga cattaaattt   540

agtgttgttg aaaagtgttc ttgcacaact gagtctctga acttgataga gaaaga   596

<210>   4067
<211>   416
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e07d1

<400>   4067

ggttgttata ttgacacgtt cttacgggaa aaaggactcc ccccatgaga ggaaacaaaa   60

gcaaccaccc gggagggaga tgattcttgc cccccgaga aagaaaaaaa aatggctcca   120

tgaagaaaaa agagccgatg gggcaaaaaa aaaaacgccc caccacacaa aagaacagtg   180

gagaccccca ctttgcccgg gaaacgtttt tgcccccaaa ggaaaaaaca gcaactcaaa   240

aaaactgccg actgctgcag aaaaaagaat gactttttga aaaacaaatc ccgccccgga   300

aaaaagaagc ccacccaaaa acagcactgg gccgggacaa aaatacccccg actgttgcca   360

aagacacgac caaagccaag agctttcagc acaaaaaccc ccccataggc cccccc   416

<210>   4068
<211>   549
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e08a1

<400>   4068

```
cggaaccgaa acccttcgcc gcaaaaaatg cctcccaaat ctgccaaatc caaggaagct      60

ccagctgagc gacccatcct cggtcgattc tcttctcacc tcaaaattgg cattgttggc     120

ttgccaaatg ttggaaaatc tactctcttt aatactctca ccaagttggc aatacctgct     180

gagaacttcc ccttttgcac cattgagcct aatgaggcgc gggtcaatgt acccgatgaa     240

cggtttgagt ggctttgcca attattcaag ccaaaaagtg aggtctcggc tttcttagaa     300

atccatgaca tagctggatt ggtccgaggt gctcatcagg ggcaaggatt ggggaatagt     360

tttttatctc acatccgtgc tgtggatggc attttccatg ttctacgtgc atttgaggat     420

ccggacatta ttcatgttga tgatactgtt gatccagtca gggatttaga ggtcattact     480

gaagaaatgc ggcttgagga tattgaactc atggaaagaa agatagaaga tattgagaaa     540

agcatgaag                                                             549


<210>      4069
<211>      449
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220061e08d1

<400>      4069

gagagggcaa aatccactag agattttaag cctaaataag taaataatat tgaaaatggg      60

cccaaaatta cattttcaaa cttgtacaaa ttgtgcaaca tggtaggcgc ctataataag     120

acacaaaccc catgcaaaac cagctttgct ttttgagatg aatctctggt tttacttttt     180

gcccccacca aaaacgttga acttaaagaa tataatggct ccattttgga ccacatatgt     240

tttcccttcc tggttatact ttccagcagc cttaacagct gactcactac caagttcctt     300

tagatcctca aacttaatca ccttagccca ataaatcct ttttcaaaat ccgtgtggat     360

agcccctgga acttgaggag cctttgattg gacgttaatt tgccaacatt taacctcatg     420

aggacctgct gtgaaaaagt aaatgagat                                       449


<210>      4070
<211>      462
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220061e09a1
```

<400> 4070

```
cttcatccat agacatggcc accgtcactt ctgcagccgt tgctattccc tcattcactg      60

gcctcaaggc aagcgcaggc aaagtgagtg ccgcagttaa agtctcagct ccccaagcca     120

caaggttggg catcaaggct tcgctgaaag acgttggagt cgctgttgtg gccactgccg     180

cgagtgcagt gctggctagc aacgccatgg ccattgaagt gttgctgggt ggtgatgacg     240

ggtctctggc tttcgttccc aacaatttct ccgaggcctc tggggagaag atcgtgttca     300

agaacaacgc atgtttcccc cacaacgttg tgttcgacga ggacgagatt cctagcggcg     360

tggatgcagg gaaaatctcc atgagcgatg aagaccttct caatgcgcct ggtgagactt     420

acagcgttac tttggatgct aagggaacct acagtttctt ct                       462
```

<210>   4071
<211>   455
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e09d1

<400>   4071

```
ttcgttcttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt      60

tttttttttt cttttttttg tctcaaaaaa caaaatgaat tccagaaacc gattaatacg     120

cttgttttcc ccctcggcca aacccggaaa attcacgcca tttactttag aaaaaacaaa     180

atttgtaaaa gaaggaccca tgggaaaact taaccgtagg gaacaacccc ttggaacaga     240

catcaattcc cagggacttg tcccccata ccacctcctt ggggagggaa acgaaaaaaa     300

cgggggggggc ccttaccctc caaggacacc ctggaagtcc caccgggcgc cttgaaaagg     360

gcccaaccga caagggggag tttccccgag tcccccccgg gtgggacatc ggccttttcc     420

aacccaccct ggggggggaa ccccgctcag ttttt                               455
```

<210>   4072
<211>   584
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e10a1

<400>   4072
```

```
aaattttctt ttctttcctg caaccatttt ttgtcctttc tgtttttcat cccattctca    60

tttctctctc atcaatccca caccagcgac ctttattctc attaataata taatctgagt   120

tcatgtattt actttattt tattcctgaa acaagttttt ggtcactggt tatagttgcg   180

cattacattt gtgtccactt tggcattttg acctggcctg tgtttggttc tttctttggt   240

tgtgttgtga gcgtgatcct gctacatgct cacctgcttt ttattccctg caactgcaac   300

agaagaaaga agataatggc atggcagtgg tgtgccatca ccgggaacca acgacacact   360

cacatggaat gaattataga acccagacct accattcata gatctcaagg atctcacagt   420

ctgctttttc tcttcatgaa gatgtactct atgtggtctt ctgagtgctc actcctgttg   480

ctaggattca aattctctat tctgccactt ggttatgtgg tggcaaagta agaaagacga   540

caaaaccatt ttggcatccg ggttctgatt ggcttgatgt tcat                     584


<210>      4073
<211>      471
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220061e10d1

<400>      4073

aagtgcaact acatacaatt ttctaacatt gattcaaaaa atttctgaag caactaaatc    60

aacattccaa caaagaagat acttatacat gactttcctt ttttttcttt ttacagatga   120

atacgagcat tacatagcta ttgacactaa tgacactgtc atttttaaca tgtaaactac   180

accttttaaa caaggagcta tagtggaaaa ccaagatgct tgtcacctag ggccagaaag   240

ctccatggct tcaactatga gtgaagattc ctctattaaa tctgaatatc tttgaggctc   300

acaagaccga aaccttggtg tttcaatcct ctgtgaggcc tcccatctct cagctaagcc   360

gtccccttgc aacatcttta atacttctga catcttgggg cggcgtgaag gattgaattg   420

tgtacctaga gtgcaacctg aaccatttct tctaattgaa tcagatcaaa g             471


<210>      4074
<211>      599
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
```

<223> Clone ID: jC-gmfl02220061e11a1

<400> 4074

ctttgcaagt actagcacaa acagctagct actatttttg aacttgtcat aattagtctc   60

taattctaat tagccataca ttgaacacac cagcacacct taaacgtaag tggtatttgt   120

tccacacagg tacactatgc cttcactctc agaagcctac cgagcccacc ccgtgcacgt   180

tcaacacaag caccctgact taaactccct acaagaactc cccgagtctt acacttggac   240

acaccatagc catgatgatc atactcctgc agcttccaac gagagtgtcc ccgttattga   300

tctcaacgac ccaaatgctt caaagttgat acaccatgca tgcataactt ggggagcgta   360

ccaagtggtg aaccatgcca tacccatgag cctnctccaa gacattcaat gggttgggga   420

gacactcttc tctctccctt gtcaccaaaa acaaaaagca gctcgttccc ctgacggtgc   480

tgatggctat ggacttgctc gcatctctta cttcttccca aactcatgtg gtctgaggga   540

ttcacatttg tggatcccct cttgagcatt tttcgcactt tggcccaaga ttccacaat   599

<210>   4075
<211>   410
<212>   DNA
<213>   Glycine max

<223> Clone ID: jC-gmfl02220061e11d1

<400> 4075

ggaaagaaaa tgttttttgg cgagtcctgt ggtcgaattg aataatcagc ttcgacaatt   60

tagtgatgtc cctttccaga caaagacaaa gacaaatgaa acacggatga gactatctta   120

tccccagtat tctctctcca gtttagagcc aaacaaatat atctacatac atatacaccc   180

tcttgaactt atttattgtt ggcatcgatc cccaccaagt ttccattcat attaagcaaa   240

aaaaagaaaa agaagaggtg tttcattcat gtttggtaga aaatagacca tgcaagaggg   300

aaggatcgaa gcaattgtgt gaggctggtt tacatcaaac gaaccggtaa tagctagcta   360

ggtgcacaaa gccgaacggt tgagagtgcc ttggtgaaat gctttgcttt   410

<210>   4076
<211>   518
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e12a1

<400>   4076

```
tctcattttc tttctgtcga gaaaatttag tgaacccaaa aggagagaac tttctttggt    60

ttgtgtttca ttttgttgtg gttttctgta agattaaatg gctgaggttt tgaccaaggc   120

gagtttggtt tcctcttctt cttcctcatg gcatggggtt ggtcaacggc atcatcgaag   180

ggtttcaacg gtttccaaca cttgtagctt cggttctggc gtgggaaagt tctcttcttt   240

gaagatgaag tctcaggttc tcagatcttg gtcctcttct tctgagtttc agggtataaa   300

gcttgtcttt catgtaaata gaggattacc caatagggtc aattcgcgct tgagagcttc   360

aactggggct cagatgagct ttagactagg gaaagttcag aaatggtggg aaaagggGct   420

tcaacccaac atgaaggatg tgacttcggc acaagacttt gtggattcac tgttaagcgc   480

aggggacaag ttggtggtgg atgatttctt ctctcccg                           518
```

<210>   4077
<211>   496
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061e12d1

<400>   4077

```
gaacaagaaa caaattatcc attggtgaat aaaatggcat tcattttaca acaataggat    60

aagaagcgat tcctcataca cgcaaaaaag taactattaa ctagtaattc tacagcttct   120

aatttcccta acctcagcaa tgcatggatt caaaaaaaca tgcctttgag gaatacacac   180

tatcatacta tgtgagttaa tctgcaatga tatcttcatt ctcacaagta tattatgtga   240

agatattaca ccaaaccaga tctacactgt acaagggatg gggtcagaag atgggttttg   300

cttacaaact gaccacatca tctccctgaa gtggttaagg ttctcttttt agagacctca   360

gaattgagaa tcattgaagg tgaaggaaga gattttgaac caggagcagg agcaggttcg   420

gttcccaact cttcatctgc atgtgcaggt tgtaaaggtt cctgtgagtt ggtgaaggac   480

agaatctttg tggcag                                                   496
```

<210>   4078
<211>   621
<212>   DNA

<400> 4078

```
catagagata acactgagca tcgtctagct atctcgatcg aactgtccaa ggtcctgtca     60

cctaacctaa agtgctaggc tcagcgctct tgttcaacgt gtggtcgctg ggctcatggg    120

atgcgaatgt tgaacggggt cattagtcac gccccgttca acattcagag ggattagtca    180

accaacatag tgttacacgt tgcaagattg aacactagta cccagttaag gacgagctaa    240

tgtaaggctt accagttaaa cggtgtcacg gtgtaaagca cgccaaaacg gcccaccacn    300

acgaaccaac aaccgatcga aaggagacct acaaaaacga aaactgttag gcaaccagat    360

aagtaacgga ttagattaag ttggcgtaca accataggcg tggctgtgtt ataaaaaacc    420

cagtatgccc agcgtgcaac gagtaccgag ccaaaccatg taggtatcgc atgccagcaa    480

tgatacaact accagccata acatggaaaa ccccaatgac acaatataca atacccacaa    540

acgcgaatgc gcaaatgtca cgattgcacg gacacaaaaa caggtagcat ggcaatgtaa    600

aggacaacag tgcaaaacag a                                            621
```

<400>   4079

```
tcgattccgt tccaggaagg tttcccgtca tcactgtatg acgtcctcct tctttggggg     60

ggggggggg gggacatacc caatgacggg tgcaggtgaa gaaatagata ggagcaccaa    120

ataggggat gagcgtaaca agggaacaaa agaaaatcta ctaccaaaac ccacncgtaa    180

ccggtgaaga ataaagagaa taaacgcaga aatgcagaag atagaaatat tgaaatagag    240

gcgcacgttt ggggtgatac gcaaatagtt gaaacggatt gtatttaaaa aaacacaacg    300

aaaagaggta aaattttata tcataccaaa cagatagttt ttgtaagacc tttgcgtcaa    360

taccaaaaag gagtgaaatg ggttaccgaa aaaagaaag taccaattaa tggtagcggc    420
```

```
gcgctggcgt gacagctttg tctggagcgg gatcgtcgct agccgcaggc aggttagggt    480

cagtaccggg aggtatgggg ggctgataca aaatactgca aaatatgtga ctttgaaaag    540

aag                                                                  543


<210>      4080
<211>      474
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220061f02a1

<400>      4080

ttcattcctg acaaggagct cggccaaatg atcgagagga ttgacgtcaa cggcgatggc     60

tgcgtcgaca tcgacgagtt cggggagctc taccagacca tcatggacga gcgcgacgag    120

gaggaggaca tgagggaggc cttcaacgtc ttcgaccaga acgccgacgg cttcatcacc    180

gtcgacgagt tgaggaccgt cctgtcctcc ctcggcttga agcagggcag aaccgtccaa    240

gactgcaaga acatgatatc caaggttgat gttgatggag acggcatggt cgatttcaag    300

gagttcaagc aaatgatgaa aggggtggc ttcagtgctc tcacttaaat tcatttcttt    360

cacattcatt caatctatct attcccatac atctttgctt tggtntgttc ttgtatataa    420

gtttcaggag aaataattac atgattcgaa caacaaggta attgcgtttt ctct         474


<210>      4081
<211>      373
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220061f02d1

<400>      4081

agagaaaaca caattacctt gttgatcgaa tcatgtaatt atttctcctg aaacttatat     60

acaagaacaa aacaaagcaa agatgtatgg gaatagatag attgaatgga tgtgaaagaa    120

atgaatttaa gtgagagcac tgaagccacc ccctttcatc atttgcttga actccttgaa    180

atcgaccatg ccgtctccat caacatcaac cttggatatc atgttcttgc agtcttggac    240

ggttctgccc tgcttcaagc cgagggagga caggacggtc ctcaactcgt cgacggtgat    300

gaagccgtcg gcgttctggt cgaagacgtt gaaggcctcc ctcatgtcct ccttctcgtc    360
```

1690

gcgctcgtcc atg   373

<210>   4082
<211>   563
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220061f03a1

<400>   4082

ctctgaatgg gggcttctct tctttgttcg attttgacat gaactatgat aatgaagcag   60

atggtggcta tgatgcttct gctgcttctg agcagtggaa cttttctgaa ggtgtcaagt   120

cgtcatcctt cttgcaagat gatctgcagg aggagcatcc agttgagtct caggatgtga   180

ggagcaaaca gagggctcaa atgctagaag acttggaaac agaagccttg atgcgtgaat   240

ggggtttgaa tgagaaggct tttcatcatt ctccaccaaa agattttgcc ggttttggaa   300

gtccaattca tttaccacct gaagagcctc ccacattgcc tccacttgat gatgggttgg   360

gccctttct tcagacaaaa gacgggggtt ttctacgctc tatgaatccc tcaattttca   420

agaattctaa aagtggtggg agcttaatca tgcaggtatc caaccctgtt gtggtacctg   480

cagaaatggg ttcttggata atggacgttt tgcagtgttt ggcttcagtg ggtattgaaa   540

agctctcaat gcangcaaag gag   563

<210>   4083
<211>   371
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061f03d1

<400>   4083

gggccgctta aatttgccct tgcaatataa ttaatatttt ctgcaaaaat agtcccccta   60

tttggggact ggaatataat ttaccccatt taacatacta acactggttc cagagggcct   120

aaattccaca gacccatgca aaagttacaa gggactttac caaagaaaaa tgggcctaga   180

gcaaaattcc caaaatccac catggtctct ctggatctgg gactttgcaa tttttaaagg   240

gtccggccaa tttcattggt gctttaacaa gacccaacaa tgcccttacc caagttcctg   300

agtgaccagg agctccaaat cacatgggtt gaagaaatta actccaaaag attacaaaaa   360

tcttacttgg g   371

<210>   4084
<211>   562
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061f04a1

<400>   4084

ggctaagtag agaggtagct ttccctgtaa gactgttact taagattacc aagaattcta   60

gctagctggt tagttctttt gtcatttcaa agagaaactg agagagccat agctagggag   120

aataccatgg acaaattgta tgggttgagt catctcttca tgacagtgtt tcttcataac   180

ttctccatgt tcatggtggt accagccatc accgatgtca caatggctgc tctttgtccc   240

ggacaagatg aatgctcact tgccatctac atcactggtt ttcaacaagc gatgataggg   300

ctgggcacgc ttgtgatgat gccactattg ggaaatcttt cggataagta tgggaggaag   360

gccatcctca cactccctat gatcctcaca atcattcccg taggcatatt agcttacagc   420

aggacgaaaa aattcttcta cgtctactat gtgtttaaga tactcatttt aatggtttgc   480

gaaggaagcg ttccttgcct tcgcctaact tacgtggcag ataacgttcc agaaagtgga   540

cgaagcactg tatttggaat tc   562

<210>   4085
<211>   473
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061f04d1

<400>   4085

gtcaaatgtc tactaggaat gaacttatac aatatattgt ttcctaatca aaagcacgtt   60

aaaggtagag cttgtacata tgaggatcgg ctaaagcaca ataaaagcac cgttgaaggc   120

tctaactaat ttatattcgc ctaattcaaa atgggaggag ccactctaag catcaaactt   180

tgaacaaaag atatcatcga agcaaatcca atgcacatta tactgaatcc aggaaaatca   240

aaaggtgcct tttcagaaag gaatagagct gttaatggag agaaaaccaa gggagaaaca   300

1692

atatgtgcaa ttgaacatat gcctgaaatg caaccttgag cctttccctg ctcatgggga   360

ccagcttctt tagatacaat acttcgtata caagggtgtg agaaaacata taaaattgag   420

aacatggcgg aagcataagg aaccaaggag gaccatgcca tgctgtaaag gaa   473

<210>   4086
<211>   591
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220061f05a1

<400>   4086

tgccatggca ctgcatttca aaacgtgcat tttttctttc aaacctcatc aaattatgac   60

aacaaaggct cagctttctc aaagcttcaa tcctgctaaa cttgattctc ttcacattgc   120

caacaaatgg aacattgttc aagaagaaag atctagcgca ttattcacaa aaactggaga   180

tctcatcagc attaatcact cagacaaact ggaggtggtc aagaatgaat ttatgaacac   240

tgtgggtgaa aattcattaa gaggtttgta catgattgat gccatgcagc gcctaaatat   300

tgattaccac ttccaagagg aaattgaaga attcctaagg aggcaatatg tgaattctac   360

tactattgcg ggtggttatt atggtgatga tattcatgag attgcacttc gcttcaggct   420

attgagacaa caaggtttct ttgtgcccga agaggtgttt cacaagttca caaacaagga   480

gggaaagttc aaccaanaac ttggtgaaaa tataaaggga atggtagagt tatatgaagc   540

ctcaccgtta ggcatagcag gggaagacac acttgcttga agctgtgaat t   591

<210>   4087
<211>   445
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061f05d1

<400>   4087

aataaataaa atatttatta attcattatt cagtactctt agtcttagaa cacgaattta   60

caaaatcttg tagttaatta aacttatttt ctataaaatt tagtatgaga aaatagtgaa   120

ccattatgga acttccttca atcagtgagg tcaatttatt ttaggccaac ctagagatta   180

aagaaaatca tcataaagca atgacttgac ttgctcctct agccctggaa gggactgttt   240

1693

gtcgtcataa ctatacatca atggtaccat ccttgcaaga ttgagtgagg ccttagtgaa 300

tgtcgaatgg aaatggttac caaacaagca ctcttggttg aggctcttcc atgcatcgga 360

gatcttactc atcacccttt ttcttgctgt tctcgtcgtg tagtgtgggt gatccatcat 420

gagacaattc acgtacgatc catca 445

<210>   4088
<211>   339
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061f06a1

<400>   4088

aaaagataga gcaaggaact cataaaagtg ggaggaatgt ggggttgaaa gcttatgttg 60

tgtgccaagt gcttgagatt gttgtcaaaa aggaaataaa acaagctgaa ataaaatcta 120

cacaagtcaa aatcaggatg ttcttccgac cagaagattt atcaaatgag aaggcatatt 180

gctctgatat acgagaggtg tattacagtg atgaaacata tataatctct gtagaatcca 240

tagaagggaa atgtcaagtc agaaaaaaga atgatattcc cgaatgcagt gctcttggtg 300

gaatcttcca aaatgttttt ttctgcgagc tcttggatg 339

<210>   4089
<211>   527
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061f06d1

<400>   4089

gcaacaacaa atattcataa caggttaaaa aaaattggtc tcaattttca actacacatt 60

gggaggtaat caattcccaa ccatttcttt cataaacagc caaaatacca tctaatcaag 120

aaaatcctag ttgatagaaa atgagcatca tccattcaat tccttggttg aggaaagtta 180

aacaaggaat tagcctcaac aaatgaccaa tggatatcac tatatacaag ggtttctagt 240

ttttggaacc cggaatgatg atttgcaata tcttggtgac tgttatgaat acaataagca 300

tgacctaatg tagaaggccc atcttctaag tggagctctt actgtccact gcttccttga 360

gctttctccc caatgctgat gctagaggag gaggcacagc attaccaatc tgccggtgct 420

tgtgtatgat attgccagca aattcatagc tatctgggaa agcctgagac cgagcacatt   480

cacgaacagt aagaatccta tcttggtcac ggtggaagca cattcca   527

<210>   4090
<211>   593
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061f07a1

<400>   4090

cttttgacag aaattaatta ttaaaataac taataaatat tttatactaa aaaactatac   60

gatagaagaa tggcataatc tatcaatcaa taacaaagtt tataatctat cttacagttt   120

tcaaatatac attaatattg atagattata actcagcaac acgacgccgt tttccgcgaa   180

gaagacatgg acgacgacga cgacgagtct caggaggacg gagactacga agaagaagac   240

gacgacgttt tggccgacga cgaagaaaac gagccctctc cctccacggc tcttgccgtc   300

accgtcgccg tccccggttc ctccgtctcc aacggcggtg ccgctccaat ttcgacgccc   360

accgtcacca ccatcgtcgt cgcagactcc tccgatccga agcggcggcg cctcgagcca   420

gtcgaggaga aaaagccgcc gtcgacgccg gacgactcgc ggcggctgtt tcagcggctg   480

tggaccgacg aggacgagat cgagctcttg caaggcttcc tagactacac cttgcagcga   540

ggatcctctg accacaacga cacggctatg ttctacgacc aaatcaagtc gaa   593

<210>   4091
<211>   529
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061f07d1

<400>   4091

gcacaattaa gaactcacta ctttcgcatc ttttacaaca tatataatgg tacaaagcca   60

tcactccgca ccagttactt caatctgttc tgtacatgta tgagaccatt gaaatttaga   120

ggaacataaa aacggctaaa atgtactaaa aacattttta ttttaaagga caagtgctcc   180

accgaatcag cgaaagctaa aatcgaaaag aaaaacacta gttaccactt actagttact   240

actagctaac cactaagcta tgagaatgaa ccaaccattg atgatgaaga ggaagaagaa   300

1695

```
ctccaatcac tcactacaaa accaaaaaca aactaaaaga tttgatcaac ctcctccgtg    360

tgaccgcaac tcctccatag cagccttgat ctgatcctga accagctcca accgctttga    420

gtacacttcc aactccaata tctgttgttt cctccatttc tcatccacca tttccccacc    480

ggcaaaactc caattcatca aaggcatagg gttcaagttc aacgaaaac               529


<210>      4092
<211>      301
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220061f08a1

<400>      4092

ctttatacaa aagttctgct catccttaac ccatggatgt atggtgctga tagactatac     60

catagacgac tggttgactc catctttcat ttccgccttc aagaaattat cttacatgat    120

tcccatattc ctggacattc gtatgtgctt gcttactaac acattacgcg ctttctttgg    180

agaacacacg gcctacgacc acgacgatca ctcatgggga cggtgactac gcggacgctg    240

accacgacgg tagacacgtc gactaagacc ctgagccctg aaccttcacg gatgtcgcac    300

g                                                                     301


<210>      4093
<211>      410
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220061f08d1

<400>      4093

ggacaacaaa aagctttctt cttgcgaatg gactacaaaa cttttgatgg tacagaggcg     60

ttattccggt ccagttcctt aaatgtggtg tgcacatgca tgagaccttg gttatccagt    120

ggcacttacc ctcgggtcta ctgaactata acaaccgta tgtaaaggga caagcgctca    180

agcgagttag cgctggctaa cgtaggcatg cttagcacca gcgaccactt accatgccct    240

actagctaac cactaagcta tggctatgat ccagccatgg acgatgacac tgaatacgaa    300

cgtgacatga gttcctacaa aagcaacagc agactaaatg ctgtgatcaa ctgtttccga    360

tggaacgcta ctgctccata gcatgcatga tctggttccg atccagctac               410
```

1696

```
<210>      4094
<211>      535
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220061f09a1

<400>      4094

caacttaaga gatcaatatg gccaccatta ccaagcctcc ttctaatata tgtttcctcc   60

ttctgttgct tctagcacac ttccatttgg gccaaagcca agttgagttg aattactact  120

ctaaaagctg cccaaaagct gaagagataa tcaaggaaca agtcacacaa ctatacaaca  180

agcatggaaa cactgccgtt tcgtgggtca gaaatctctt ccacgattgc gtggttaagt  240

catgcgatgc atcactactg ttagcgacgg tgagcgatgt agtgtcggag caggcgtcgg  300

atagaagttt tgggatgaga aacttcaagt acgtaaacac catcaaagca gcggttgaga  360

aagaatgccc cttgacggtt tcatgcgctg acattgttgc tctttctgct agagatggca  420

ttgccttgtt gggaggacca agcattgaaa tgaagacagg gcgaaaggat agcanagaaa  480

gctatgcaac ggaggtggaa gccttgattc caaaccacaa tgattccatg tcctc       535


<210>      4095
<211>      455
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220061f09d1

<400>      4095

ccataaacct ttaagatgtt gggctttgtt agctgtagta gtaacatatg acatgtctat   60

gaacaaagca aacagaaggg aattacttcc cgcaaatagg gagcgtgcag gaagtaaaag  120

cccaaacata agcgtataca taaggctagg cccaatggcg tattgcactg aatatggtaa  180

cctaggccca gtacgtccca cccgtttatt ttggcgcact cgtgcattat aatctatgct  240

aattatacat attatcatgc acaaagggca accttatgct atatatttaa ttggcattga  300

ggtagcgaca atcctttctg atttcacctt catctcctgt taaaggattg gtctctgaca  360

acaaaagaat ggcccttgag aattgttggt tgaaataatc attgtcgttg gccatctttt  420
```

```
ggacataagg tgcagttatt gggtcagtgg caagc                              455


<210>      4096
<211>      597
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220061f10a1

<400>      4096


ggacaccaat aagggagttc aagaatttgg agacaaaagg ggttcctttc ccaaagaacc   60

aacccatgag aatatactct agcctttgga acgctgagga ttgggccaca aggggtgggc   120

ttgtgaaaac ggattggagc aaggccccat tcacagcctc atacagaaac ttcaatgccc   180

taacctcttc ctccactggc caatcactgg acgccacggg gctggccaag atccattggg   240

tgcaaaagaa ttacatgatt tacaactatt gcactgatat tagacgtttc ccacaaggcc   300

ttcctccaga atgttccatt gcttgagaat gttcattatt caattcaatg ttgcatatta   360

ttatatatat aaaaaaaatg gtccccatat acgtgacacg tgtatgccta ttacgttgat   420

ttactttctt ggataaacta atgttactaa aactatgatt atggttggtt ggtttgtgct   480

ttaatttgtt gagcactact tcattgtttg tgatcacana agatgattat agcctgcaaa   540

attatattca tgcccgtgta tatgtgctga aattggaaag tatcttcatt aaataaa      597   .


<210>      4097
<211>      464
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220061f10d1

<400>      4097


aactccaaca attttattaa tgaagatact ttacaatttc agcacatata cacgggcatg   60

aatataattt tgcaggctat aatcatcttt tgtgatcaca acaatggag tagtgctcaa   120

caaattaaag cacaaaccaa ccaacaataa tcatagtttt agttacatta gtttatacaa   180

gaaagtaaat caacgtaata ggcatacacg tgtcacgtat atggggacca ttttttttat   240

atatataata atatgcaaca ttgaattgaa taatgaacat tctcaagcaa tggaacattc   300

tggagggagg ccttgtggga aacgtctaat atcagtgcaa tagttgtaaa tcatgtaatt   360
```

```
cttttgcacc caatggatct tggccagccc cgtggcgtcc agtgattggc cagtggagga   420

agaagttagg gcattgaagt ttctgtatga ggctgtgaat gggg                     464
```

```
<400>     4098

tataaataaa acggtttctc tctttgagac tactatcagg gtcctcggag gattactttc    60

agctcatctt attgccactg attatgctac gggcatgaga gttccgttgt atgataatca   120

gttactaaac ttagctgaag atcttgccag gaggttgtta cctgcatttg atacccctac   180

aggaattcca tttggatctg taaacttgtt acatggagtt gataaacatg aaagcaagat   240

aacttcaaca gctggtggtg ggaccttgac tcttgaattt ggagttctaa gccgattgac   300

aaatgatcct atttttgaac aagttaccaa gaatgcagtg cgtggacttt gggcacggcg   360

ttcaaagctt aacctggtcg gtgctcatat taatgttttt acaggtgaat ggacacaaaa   420

ggatgctggg ataggaacta gtattgactc tttttatgag tatctattgg aggcttattt   480

attatttgga gatgatgagt acttggatat attccaagaa agctatgctg ctgccatgca   540

ttatccttac catgaccctt ggtatgtgga agtgaatatg                         580
```

```
<400>     4099

atcagcaatt caaattatga tctaaattca ataatctgat aatacctatg tcatgtacac    60

tgattaaacc tctcacaata ggtttacaag agccttagga aaaatgatac aacaaaaata   120

attacattac attcttatac atgtgcccga tgattaggag gcaggatatt agtgggtcag   180

ttcatccata atttaactct ttcagctcca tgctctctgt atcaacagtt gccgaaatta   240
```

```
tcaaatgcat actttctcaa ttagacagac taacaaaact tgaatttaaa tttcaggtgg   300

gtgagcctgc ccgagtttta gaagtacaac cctttgaagt tgaagagtat attcttcccc   360

accaatccta ttgcataact gagatcttat aattcctact tcaaggagta tcgcttgatt   420

catttgtctg actatcatta tgattactgc tattgtcttc tggtagcaaa ttgtcagaac   480

tctggtcacg gagaaccaat actgaatggc ttngcaagtg cacagcagta gttgattctt   540

tctg                                                              544


<210>     4100
<211>     564
<212>     DNA
<213>     Glycine max

<223>     Clone ID: jC-gmfl02220061f12a1

<400>     4100

gtaacagcag agcagaacac cgataaatcg ctatgactgc tcagacccaa gaggagcttc    60

ttgcggccga ccttgagcaa caaaagatcc atgatgatga gcctgtagtt gaggatgatg   120

atgaggatga cgaagatgac gacgatgagg atgacgacaa tgttgaaggt gatgcatctg   180

gtaggtccaa gcagaccaga agcgaaaaga agagtcgcaa ggcaatgctc aaacttggaa   240

tgaaacctgt cacaggtgtc agtcgtgtga ctgttaagaa gagcaaaaat atcctgtttg   300

ttatatcaaa accagatgtt ttcaagagcc cgacttctga cacatacatt atattcggcg   360

aagccaagat tgaagacttg agctcacagc tacaaactca agcagcagag caattcaagg   420

ctcctaatgt gagcaatgat ggatcgaagc ctgaaacctc tgctgctgct gctcaagacg   480

acgaggatgt cgacgagact ggtgtagatc ccaaggatat agagctggtg atgactcaag   540

cttgtgtgtt gagatcagag ctgt                                         564


<210>     4101
<211>     323
<212>     DNA
<213>     Glycine max

<223>     Clone ID: jC-gmfl02220061f12d1

<400>     4101

attattactt tttttttttt ttttttttatt gtttaattta acacattttt ttataaccat    60
```

1700

```
gtgttcttaa aatctagaaa gaaagccaaa ataagaaggt tatcaggggc tacaaaacac    120

acttgtgaaa aaaggacaca ccccaatttg tttctaagca aaacaaacac cccaaaaaaa    180

gaacacagca aaaaccccg tttaaggccc ctttagcaac ccaggggaa ggaaaattcc      240

ttgtacaaaa aaaaaaacgc ccaaaacgaa gaatttaaaa attgcccaaa atgcaccctg    300

acccaaaacg aatccccaaa agg                                            323
```

<210>   4102
<211>   239
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061g01a1

<400>   4102

```
atagaggtac actgagcatc gtctagctat ctcgatcgaa ctgtccaagg tcctgtcacc    60

gaagcttcca taggcaggaa ggtgctatga cagtatacga attagcctta aaagtctatg    120

gccaactatt tcacaccta tgtaattaca tgcataggta catttgtagt ctgtaaggta     180

gacttattgg ttgatgacta ggtctggcct caaccaagtg gttagccgtc gacataagt     239
```

<210>   4103
<211>   249
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061g01d1

<400>   4103

```
tccgattccg ttccaggaag gtttcccgtc atcactgtat gacgtcctcc ttctttgggg    60

gggggggggg gcgagctaat gacaagtcag cagtggaggg tccccgaaca gtacgaaata    120

agagaggaga tggaaagcaa ttgggtaaaa tagttagaac accttagaat ctaatctagg    180

aggtggacag gaaaggagtg ataagacgct agtagggggg cacacccagc aaacgctacc    240

gcataagtt                                                            249
```

<210>   4104
<211>   555
<212>   DNA
<213>   Glycine max
```

<223>　　　Clone ID: jC-gmfl02220061g02a1

<400>　　　4104

```
ctgggagaaa tttgcaaggt actttgaggt ggagctgaaa gaggtgaagc tgcgtgatgg    60

atactatgta atggaccctg aaaaagcagt ggaaatggtg gatgagaaca ccatttgtgt   120

tgctgctatc cttggttcca ctctgaatgg agagtttgaa gatgtcaaac tcttaaatga   180

tctcctggtg gaaaagaata aggaaactgg atgggacact ccaattcatg tggatgctgc   240

cagtggggga ttcattgcac cttttctta tccagagctt gaatgggact ttcggttgcc   300

actagtgaag agcatcaatg ttagtggaca caaatatggt ttagtctatg ctggaattgg   360

ttgggtcatt tggagaagca aggaagacct tcctgaggaa ctcattttcc acattaacta   420

tctaggagct gatcaaccca ccttcaccct caacttctcc aaggttctag ccaagttatt   480

gctcagtact accaactaat tcgactgggt tatgagggat ataaatggt gatggaaaac   540

tgcaatgaca acatg                                                   555
```

<210>　　　4105
<211>　　　316
<212>　　　DNA
<213>　　　Glycine max

<223>　　　Clone ID: jC-gmfl02220061g02d1

<400>　　　4105

```
caggccaaca caattccata caaccaacaa cattggaatt tcagcatatt taaagtcccc    60

tttgttattg gggaagggaa ttactttcca cacgatttta ttttaaaata ataatagaaa   120

ttgctctggt ctctggtctg cataagtggc tcaaaaaatg atccaaaaac aaggttttaa   180

caaacaccat ttatttttctt cctgtccatc acaaacttct tccaagcttt agggattacc   240

ctttgggatc ctatttcact cttttttggaa aacagaactt ttccggcatt ttttttcacct   300

gcttttcctg taacca                                                   316
```

<210>　　　4106
<211>　　　547
<212>　　　DNA
<213>　　　Glycine max

<223>　　　Clone ID: jC-gmfl02220061g03a1

1702

<400>   4106

ccggaatctg tctaaccacc ctaaagatcc ggcggcgagc cccaaaacca aacccttctt   60

aaaggagaat ccaaaattca attccaacac ataaaatttc aagtccgagg ttgcctataa   120

aaaccacttt ggaccccctt cgctcattgc agcctcaaga atccacacaa actcagggta   180

gggcagagag agagagagag agagagagag agagagagaa tgggagggtg ggctatcgcg   240

gtgcatggtg gcgctggtgt cgaccctaat ctcccactcg agcgccaaga agaagcgaaa   300

caacttctca cgcgctgtct caatcttgga atctctgctc taaattctaa tcttcccgcc   360

atagatgtcg tcgaacttgt ggtgagggaa ttggaaacgg atccgctgtt caattcgggc   420

cgaggatctg ccctgacaga aaaaggaacg gtggagatgg aggctagcat catggatggt   480

ccaaaaacga cgatgcggcg cccgtttcgg tcttaccacc gttaagaacc cgatctcgct   540

tgttcgt   547

<210>   4107
<211>   450
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061g03d1

<400>   4107

aattaatatt caaagaaact gattaataaa atgctactaa ttattaacaa tttgtacaca   60

ttaagatcct tgcaaataat ataagaattg aagaaaaaga gaaggaagtt aagtaagtga   120

tagtaaaaag gtacacgggt ttgttgaggg tctaccacaa gtctttattt aagagaaaga   180

caacaaagtt accatattat tatttcacat tttttttctaa ttcttagaaa caaggttacc   240

atttttatc taaatcgggc accagcagaa agaccctaca ctacagtgga acatggtaca   300

gaaatccaaa agttgcatcg aaacaaccat gaaggaaaat aatgaagcta ttcccagatt   360

ccgacctcca tgaagccatt ttcagtggca cagcccctaa acatgccatt gcaattgaaa   420

ccataagcca cttacccagc gttggacaca   450

<210>   4108
<211>   567
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061g04a1

<400>   4108

gtgaaggcaa agatccaaga caaggagggt attcctccag accagcaaag gttgatttt   60

gcgggaaagc agcttgaaga tggacgtacg ctggcagact acaacattca aaaggagtct   120

acccttcacc ttgtccttcg tctgagggga ggtatgcaga tctttgtgaa gactttgaca   180

gggaaaacta tcaccttgga ggttgaaagt tcagacacaa ttgataatgt caaggcaaaa   240

atacaggaca aggaaggtat cccccagac caacagaggt tgatctttgc tgggaagcaa   300

ctggaggatg gaaggactct tgctgactac aacattcaga aagagtctac tcttcacctt   360

gtcttgcgtc ttcgtggtgg gttttgagtt tgagaatggt ctgcaggtcc cttgtttggt   420

gtgaactgaa gtatgtgaaa gtctataatc tggtctttc tttttatatg ttcctgaact   480

ttgtgtatgt gtgcattccg ggtccattag cggaccttga aaagctatga tgtgtccatt   540

tgcaatctgt ttaatgaatt agtcttt   567

<210>   4109
<211>   475
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061g04d1

<400>   4109

attgaaagta ctaaattcat taaaacatga ttgcaaattg tacacattca tagcttttca   60

aggtccgcta atggacccgg gatgcacaca tacacaaagt tcaggaacat ataaaaagaa   120

aagaccagat tatagacttt cacatacttc agttcacacc aaacaaggga cctgcagacc   180

attctcaaac tcaaaaccca ccacgaagac gcaagacaag gtgaagagta gactctttct   240

gaatgttgta gtcagcaaga gtccttccat cctccagttg cttcccagca aagatcaacc   300

tctgttggtc tggggggata ccttccttgt cctgtatttt tgccttgaca ttatcaattg   360

tgtctgaact ttcaacctcc aaggtgatag ttttccctgt caaagtcttc acaaagatct   420

gcatacctcc cctcagacga aggacaaggt gaaaggtaga ctcctttga aatgt   475

<210>   4110
<211>   601
<212>   DNA

<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061g05a1

<400>   4110

cgggcacatt aaaaaaggaa tggataagtt cctaaaaata aagaaaacta taacacatta   60

taaggagggg tcaaatatta attaagataa aagatataga atatctatct gtatatatat   120

atatatagat atatattctt gaacctaaag agcgctgtat gcttcttaaa tttgtcacca   180

gttgttctcg tgccccatta cttgggttca aatacttgca gccacctttt accatccaca   240

aggtatgttc ttgatctttt atgattgatg ggcattcaaa atcatttata ctaactcctc   300

tatgttccca ttttgctttg ttcttaaatg attaaagctt ggtttgtatt ttttgttact   360

caagcagagt acattaagga caacaataga gttaggaagc aaagcgtctt gaactcttct   420

gatcagttat ctaaaataac ttgtttccct agatgggatt tatgcacgaa tcagtttttc   480

attagatgtt agtgctttaa ttgcttgcta tgagttgaaa gggttgcatt agttacagcc   540

tttattttgt accagccttt gtttctagga tttctgcttt ctctcctcct tgcacatcat   600

.g   601

<210>   4111
<211>   315
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061g05d1

<400>   4111

aacagttctt tatgttgttg gggggggggaa aagccaaagc gggacacact gggcgcccca   60

cggccaatgg ataccctccc cccccccccc gaaccaaccc cacaaacaaa ccggggggcc   120

aaaaggggac caaaaacaaa cccccccccc ccggggggaag gggaaaaagg ggcacaaagg   180

gcccccccccc ggggggggtc cccccccccc cttttttgccg aaccccaacc caaaaagggg   240

gggtgctttc cccccaaaaa caaaaaaagc cccccggag aatgccccac cggggcaaaa   300

ccccccccct ggggg   315

<210>   4112
<211>   457
<212>   DNA

<210> Glycine max

<223>   Clone ID: jC-gmfl02220061g06a1

<400>   4112

acagaacttg gtcaatggtg cggatgcatg tgttcaaatt tggacctgtc tctgataaca   60

taacggctcg tactccacct ttgaagtgga acaatgttgg gggcatatac cctaattact   120

atgtgcaatg cctctagttc tggacgaccc acaacgctgc cctgaccta aaggtcatag   180

cgctattagc acagcgcgag cacttgggct catattctgg cacataacaa ttcctatgca   240

ctcaagaaaa ccgttgatgt ttctcgatcg taggatacta caacgaatca tccctaccta   300

gcatcaggtg cgcatgtggg tgtgatgtca ctgggtagtg ctggtctagg cttctccgt   360

agtctcttac agcacatttt cgtcttgagt cgattgctga caggaacgtt catgcacgtg   420

catgggccag gatctagcac ttgcacggtt cgtgcat   457

<210>   4113
<211>   375
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061g06d1

<400>   4113

agaaaatgaa cctattaatt aatcatatgg ttgaactagg cttgagaaac gattatacat   60

gacctaacat ttcatacact atagtaacgt tgatcagaca tggctgtcta atagtgatac   120

gatctagtca cgtactgaac tgattataag ttcgacacac aatgttgtat cgatcagata   180

tacactgtta tgcacttta cacacatagg ctgcatccct aatgacatgc atatgtatct   240

gtctgctcaa ttgggctaag caccccgttg ttgacgagac tgatatatat aaataacgca   300

gacgcgaaga gaagaaaagt ttacccttc aagccagtaa ctctatgtct tgagtcaagg   360

gaggctaatc attta   375

<210>   4114
<211>   293
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061g07a1

1706

<400>   4114

gcaacatgtc aatgagtgag cggaagacta ttgacctaga acagggatgg gatttcatgc   60

tgaagggcat caccaagctc aagaacattc tcgaaggctt gcccgagcct caattcagct   120

ccgaggacta catgatgctt tacacgacca tctacaacat gtgcactcaa aagcctcctc   180

atgactattc ccaacaactt tacgacaagt ataaggagtc ttttgaagag tacatcgtat   240

caacggtatt accttctttg agagagaaac gatgaatt tatgttgaga gaa   293

<210>   4115
<211>   373
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061g07d1

<400>   4115

atagaaatgt cgttgggaaa tattatcgta ggcaaattaa tgtcgagcca tagcagttgg   60

gtttagattt aaaaggcata cccaatcacc tgatgatttc taagctgata atcaaaatac   120

aatttccttg aagcgcttac acaattttgg ggggagggag ggaagggaat catataacca   180

acgggcattg tgagaaggaa ttgcagcaat cagaacccaa aaagatggtg aaagtatcag   240

tgagcaggat tatggaattt tgattacaat ttcccaacat gatcacacat ttacctggag   300

gcaaaattta caagcactga cagctcctcc ctcaaggatt ttttaaggaa aactcctctc   360

ttttttttc aaa   373

<210>   4116
<211>   125
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061g08a1

<400>   4116

caagcaggtt aagggctcat ctgcagactc cttaccacgc gcaggtcact cagttatggc   60

tatggggatt tcactaaccc tcaagcagcc gcgagggcat ggcctgtcgc tgatatttac   120

actcc   125

<210>   4117

```
<211>       490
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220061g08d1

<400>       4117

aatccaaacc gcaaatgcat atgtaataga tacaacatgt tatgctaatc catactacag    60

gcattcagat acgaattaaa gtgaaaccgg aagtcccaag aacataaact tccttagaac   120

tctgactaaa acaaaacatc taagacacct gtaaataaac tggggggaag cgtacggaat   180

gggaataact ggaaagcaga ttccagtcaa aagactagag gaatctaaga cccaagattg   240

tcattgagag agagtgaagc tagatgatca gctgggttag actgctgctg agcaacattt   300

cttaacacat tcatggcttc agcaacttta gccttcagag catctggtga ctcaatcaga   360

tgtaaaactt caggctggtc catctccaga agcatgccag aaacctttgc tgcagcatgg   420

agttccagct gatccacaag cgggtataaa gctctaccga gcatagtact ctgctgttca   480

gggggagcat                                                          490


<210>       4118
<211>       583
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220061g09a1

<400>       4118

ggaagatgtc tagtttggtt ttgttgtccg tgttatttct ccttctccaa cgtcctctct    60

catccttctc agccaactcc gaaggtgtgt tttttaatgt tccacttatt gattattttg   120

cttgtggtcc tgtcctagct aatttctttc ttgttttgta ggaaacgctc ttcatgcttt   180

gagaagcagg ctttctgacc ccagcaacgt gcttcagagc tgggacccaa atctcgttaa   240

tgcttgtact tggtttcatg ttacctgcga ctccaacaat cacgtcattc gcttagactt   300

gggcaattct aagctctccg gaactttggg accagaactt gcccagctac cccaccttca   360

atacctgttt gtatctgtct cttttgttgc tcccaaccca acaatccatc atggtctcac   420

ttattctttg ttgagagtgc atggagctct acaggaataa cataagtggc aacattcctc   480

gggaactttc taaattgaag aaccttatta gtatggattt gtatgacaaa ccatttcatt   540
```

gcataatccc caagtttttt gcacttgact cactttaatt cta   583

```
<210>       4119
<211>       391
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220061g09d1

<400>       4119
```

ccaacccaaa agtggggaat tacccaaaat tttttgggac cccccaaagt tttggaaatt   60

tggggcccct ttaaaaaaaa ttccccgggg gaaaaaaggg ccctaaaaaa aaaaaaggaa   120

gggttctttt tttggccaaa ctaaaaaacc taaaaagggg ttcccttggg cccaagtaaa   180

caggggggggg tgggaaaaaa acttttaggg cctgggccta aattcgggga acccaaaccg   240

gcggggtttt aaacccaaac gggaacgggg ggttttttta aactgggcat ttccccaaaa   300

aaaacctggg ttttgcggtt tgcacccccgg gggagacaaa aaaacccttt tttatttaaa   360

aatttgggcc ccccaaatgg gggcccccccc t   391

```
<210>       4120
<211>       392
<212>       DNA
<213>       Glycine max

<223>       unsure at all n locations
<223>       Clone ID: jC-gmfl02220061g10a1

<400>       4120
```

accaaggaga gaacaagcac agcctcttag aaaagcttca ccgatctgac agcagctcta   60

gctcttcaag tgaggaggaa ggagaagatg gagagaaaag gaagaagaag aagaaggaaa   120

agaaagggct gaaagagaag atcgaggaga aaatagaggg tgatcatcat catcacaagg   180

atgaggacac aagtgtccct gttgagaaag ttggagttgt tggaacagca catgctgagg   240

aaaagaaagg gttcctcgac aagattaaag agaagctacc aaggcacaag aagacagaag   300

aggccacagc tactacttct nctccaccac cacctgttgc atcattggag catggtgaag   360

gtgctcatta tgaaagagag gcccaaggag ag   392

```
<210>       4121
<211>       495
```

1709

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061g10d1

<400> 4121

```
aaaacacaaa taaaacacac tattattcca ttttcagtac atatttaatt cttttttact   60

tcaaagaagg aaacctacac aaactttttt ttttgtaaat ggaagagata aatacacaat  120

aataaagtaa attaagtatg catcaagaaa caccaaagaa acccacaagg ctgtcatatg  180

atgaaatgaa aacaaagcac accacaatca tgcatctcca accaacaaaa aagccttgtc  240

tcaatcttaa atatcaatga gcaccactct ccttttcctt ttccttttcc tcctctgtct  300

tggagtgata accaggaagc ttctctttta tcttttctaa tatacctttc ttctccttgg  360

cctctccttc atgatgagca ccttcaccat gctccaatga tgcaacaggt ggtggtggaa  420

gaagagtagt agctgtggcc tactctgtct tcttgtgccc tggtagcttc tacttaatct  480

tgtcgaggaa ccccct                                                  495
```

<210> 4122
<211> 563
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220061g11a1

<400>   4122

```
ggcgcaagtg aggaacaagc aagtgcttct aaaggactat gttaccggtt ttcccaaaga   60

atccgacatg aatattgtcg aaagtaccat aacattgaag cttccacaag gttccaatga  120

tgtcttgctc aaaaatttgt acttgtcttg tgatccgtat atgaggaatc tcatgaacaa  180

gcccgaaggc cctcccaata gtcgtgctta cactcctggc tctccattaa taggatatgg  240

tgtgtctaaa gtcctggaat ctgggcaccc agattataag gaaggtgatt tagtgtgggg  300

ctttaccaaa tgggaagagt atagcttgtt accctcagct caaatactct tcaaaattga  360

gcacactgat gttccactta cctactacac tggaattctt ggtatgccag gagtgactgc  420

atatgcaggt ctatttgaag taggatctct tcagaaagga gaaaatgttt ttgtttcggc  480

tgccttttgc gcagttggtc aacttgttgg gcaatttgct aaactgaatg gatgttatgt  540

agttggaagt gctggatcta aag                                          563
```

1710

```
<210>      4123
<211>      513
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220061g11d1

<400>      4123

atagaaaaag caaatgcttt tattcaagag aaacaactgt gcattacatt tgatactgct   60

ctcaggacta tcaagaacaa agagcatcat catacagttg acgaaggtga ctgcaaaggt  120

gatgtcaaga cagccaattt ttcagcaaaa aaaccagaaa taaaactgat aacttcccat  180

tgaacacaag aaacaaatgc tttttactca tgagaaacaa cgagcacttg ttttccaaca  240

ttgcgaccgc taaaaaggcc aaccaatgct gaaggtccat tctcaagccc ctcagctatg  300

tcttccacat acacaacctt cccctctctg atatttggca ggagaaactc caagaacttg  360

ggatataggt gaacgaaatc catgaagtta aagccttgca aacgaatccg cttatatatg  420

atctgtgcca aatttgttac accttcatgt tgagtaagat tatactgtga gatcattcca  480

cagacgggta tgcgaccacg gactctcatg ttc                                513


<210>      4124
<211>      531
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220061g12a1

<400>      4124

cggaattagg agtgaggaag agagggttct ctgagactga aactgatgaa acagccaccg   60

ttgatttgat gcttaacctc tcacccaagg aagctgctgc tgctgatggt gcagatccac  120

gtgagaagcc aaagacttcg ccgaaggaga gacccttct  gcttcccgat cccgccaagc  180

ctcctgccaa ggcgcaagtg gtgggatggc cacccgtgag gtctttccgg aagaacatgt  240

tcgcagccca aaagagcagc ggcggagagg aaagcgaaaa gagcagccct aatgcaagct  300

ttgtcaaagt tagcatggat ggagcacctt accttcgcaa agttgacttg aagatgtaca  360

agagttaccc agagctctct gatgccttgg gcaaaatgtt tagctccttc accattggaa  420

attgtgaatc ccaaggcttc aaggatttca tgaatgagag caagttgatg gatcttttga  480
```

```
acagctccga ctatgtcccg acctatgaag acagggatgg cgactggatg c          531
```

```
<210>       4125
<211>       506
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220061g12d1

<400>       4125

agcaaattaa taaacttatt attatgcaag cacacaagta aagaaataag aaagtcttgc    60

aacataattt agagtcatta tcgtttgtgt tcataattta tacttacgac atctcacaac   120

tttgtttgaa atatatatta tataacaaac cataatgata cacagattta cttaactata   180

ttttttaaca ccctgctctc tccctctgtg tctgctgcag cttaaccttg cttcagttac   240

taagtcaact aggcaccgct aatgatgatg gagcagattt tggactggta actactagtc   300

tagctcctgt tcttgcattt ctccacggct cttggtgcca gtccaatagc ttcctttcct   360

ttcatgatac gtaaacgctt gcatgattca acaaacatct cccatggcac atcaccgaca   420

agcatccagt cgccatccct gtcttcatag gtcgggacat agtcggagct gttcaaaaga   480

tccatcaact tgctctcatt catgaa                                        506
```

```
<210>       4126
<211>       452
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220061h01a1

<400>       4126

gatgagataa cactgagcat cgtctagcta tctcgatcga actgtccaag gtcctgtcac    60

tgtgaggtgg tggtggttgt agatgggatc ggttgtaggg gggtttaact gtgttcgcac   120

cgtgtggtga tttgaaagtt caatttcaag gtccgggtaa gtgtacacac acacacacac   180

acccacacac acaaatatgc attgagtgtc tacaagtcat aattatggtg tatgtggtaa   240

gtctaatgca cgtgggcagc ccgttcacga ggtattatta catttaatat gtttgaaatt   300

agcctccccg tgcgccagcc taacatccca gagtgggatg gggccaagtt gcacatgaag   360

cgtatttacg agcacaccgt tagttgtacg tgtactggtt tacgtaacgg ggtggtacgc   420
```

tttactgtgg tgcgttaccg gtaataagta gt   452

<210>   4127
<211>   511
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h01d1

<400>   4127

gctagcgata tccgttccaa ggaaggattt cccgatcatc agctgtatga cagtccatcc   60

tgtcgtttgg ggggagggt gggggacag acgtagcaca gaacgggatg ggggggcgag   120

gcagagcccc aataaaccaa tgttcgtgtt agagaaacag tcactgggga ttaaaaagaa   180

taaataaaag tttataagag gtgggatgga tgaccggtag tgagcgttag ggttacctgg   240

tgataaactt ttgtaaaaga gatagggctt agcaaggtta tgattagagt tgaatgcgtg   300

tcgcggtaaa gaataagttt tggttatagg agcgaacaac attaaaataa ttggccatag   360

agggagagcg aaagccgtgt accagacgtt aaaagttgaa ggcatanggga tcccagtagt   420

ggcattaagt aggttggtgg ttgctccaag tagtttggtt gttatggtgt taggcgaaca   480

gcaagcacag ttactagagt ggttagtatt t   511

<210>   4128
<211>   532
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h02a1

<400>   4128

ctagcactca atattgctga gaaaggcttt cccatttctg tttataaccg aaccacttcc   60

aaggttgatg agactgtaga acgagcaaaa caagaaggaa atcttccagt ttatggctac   120

catgaccccg aagcttttgt tcattccatt caaaagccta gggtgataat aatgcttgtt   180

aaggctgggg cacctgttga ccagaccatt aagaccctat ctgcatacat ggaaaaaggt   240

gactgcataa ttgatggtgg taacgaatgg tacgagaaca ccgaaagacg agagaaatcg   300

gtggctgaat tgggtctgct ctaccttggg atgggagttt ctggtggtga ggaaggtgct   360

cgtaatggtc cctctttgat gcctggtggt tcgtttgagg ctttcaaata catagaagat   420

attcttctca aggtggcagc tcaagtccct gacagtggtc cttgcgtgac ttatattggt   480

aaaggtggct ctggtaattt tgtgaagatg atccacattg gcatcgaata tt   532

<210>   4129
<211>   517
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h02d1

<400>   4129

aataaacaaa gatatttatg gagataacct aatactgata tttatactaa tacttaggtc   60

gagcactagt actagtagta caagcccaag cccaccaata acaagaccaa aacctaaata   120

actcaagaaa gatattctta atattctcca acaatatcaa acttattcac tgttgacagt   180

agatcaacat taaactcaac aagttaacaa taaatgtaaa aatttcaact cctggtgtaa   240

cataacatgt atccatgacg ctgaaggaaa tcttatcaaa atgtgaaaat taaaaaggca   300

ccatgagctg ggacaatttt gtatcaagca caaagcatga tcagcaaaga tacaacatag   360

ttggaaaaca aactatcaag caattcagtt ggaaataata taaataaaac ttcaccacgt   420

tgtggctatg taaactcaac tcagcataca gtctgagcag aaaacattac atttattagg   480

aaaatcctga ttgttcaaat acagtaatct aaattct   517

<210>   4130
<211>   466
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h03a1

<400>   4130

gtcatcacaa ggatgaagga ctgggaagat gattctacac accacaacat ggatgtagct   60

ggcaatctgc ttgaaacata tggacgttct ctgtatcagt atacaaaaac tactgtacgt   120

atggttaaca tggtgcagat actgatgcga gggaaacatg tctaagactt gactccgaga   180

cataacacta tgatggagaa tgcatactac ctttacacgc caccagatgg atctgcacga   240

gtacctgaag gtgatgcttc attgcatcac catcatagga agatacttgc ctctgatctt   300

gaggaggata ccatggctca tgctctgtag caccttcaga aggaacctag taatgaacgt   360

gaaccatatc ttttgaaatg cttcatgaat ggctacagag gaaaatgtgc gtagatccac 420

ctgactgatc tctggctgct ggataagtcg ctatcatgat gagtat 466

<210>   4131
<211>   372
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h03d1

<400>   4131

attgaaagtt ctatatttat taaaacatga ttgcaaattg tacacattca taaatttta 60

aggaccttta ctgggcccga catgcgcaca tacacaaagt ttatgaacat ataaacagaa 120

aggaccaaaa tataggctct tacatacttc agttcacacc aaacaaggga cctgcagacc 180

attgtcaaac tcaaaaccta ccacgaagac gcacgacatg gcgcagaggt tactctggct 240

gaatgatgta gtcacaaaga gtccttacat tcttcaggcg ctttccagca tagatcaatc 300

ttttgcgagc tggggggata ccttgctctg cctgaacaaa tgcctggaca ttatcaacag 360

tgtctgaact tt 372

<210>   4132
<211>   589
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220061h04a1

<400>   4132

agagtctctc accattcaag gaagtatgat gacagggaac acgaccaaca gtatggaaga 60

aatcactatg gcagaagcag tgactctctt agacattctg atagacagtc attcaaaagt 120

tcctttggtc actctcggta tgacaagtat gcaaatgaag atagatatcg ggagaggctg 180

ttgtctcgtt ctggacatga gtcaagggat gatcatgtga gagaagagag tgatagcagg 240

ccaaaaaact accagtgcag tgtggacaag tattcacatg acaaatatga caggtctgat 300

catagaagca aagaaaaacg tagagataca tactcggagc atcagaaata taaagatatg 360

gattcttcat atgaaaaatc tgcatctagc aagaggcatg cactgtatga tgaagtggag 420

agggaggggc attcaaggga ctgggatggt caaaatgaaa gaagagattt ccgccgaagt   480

tcaggggact acagaagtga ccaaagagat gagtcaggtc cacaaagaga cagtggntaa   540

tntagtttaa aagaagctta ttagagtgaa cagaatgagt caaatgatc   589

<210>   4133
<211>   541
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220061h04d1

<400>   4133

agatacaatc acgataagaa attccataga aataacacgc cctgtcaaaa tcaggaactc   60

caaacagatg ccaagtggtg atgtccctaa cataagattc ataaactccc aagcatgtcc   120

acagcaaaca agcaaaaagc tcctccctaa acatggggtg ataattaaca cataaatgtc   180

aaaggatgta aattttccgg agaatggtta aagccctaag ccaactgtac ggccatctct   240

tcgtcgaagg cctgcagtgt attgtttctc tagatccatc tgaagttcct tctgcttctc   300

agcacggaga atttcgttac tgctttggtt gttggaattc tgctccacct ttgcttcgcc   360

tctcataccc atgagtttgc tgaatttctc ttgcctctca cgatcagaaa acatcccggt   420

atcccatcga tggccagact cttcagtagg tatactctnt ntgccacccc acaacagttt   480

cttctttggt cagtagtcaa gcattcaggc ccaactaagt tcctattacc caatcagcag   540

c   541

<210>   4134
<211>   542
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h05a1

<400>   4134

ggcactctcg gtggctataa tctttctgtg gtgagttgtc aagatgtaca catcaaggaa   60

gaaaatccac aaggataagg atgctgagcc aactgaattt gaggaatcag tcggacaggc   120

attgtttgat ctggaaaata ccaacaatga gctgaaaagt gatctgaaag atttatacat   180

aaactcagct gtccaaattg atgtttctgg gaaccgcaag gctgtggtta tccatgtccc   240

ctacagatta aggaaaggat tccggaagat tcatgtcagg cttgtgagag aacttgagaa   300

aaagtttagt ggaaaggatg taatcctgat tgccacccgg aggatattga ggccaccaaa   360

gaaaggttct gctgttcagc gtccccgcac ccgaacactc actgctgtac acgaggcaat   420

gctggaagat attgtattgc ctgctgagat tgttggaaag cgtgttaggt ataaaattga   480

tggttccaag attatgaacg tctttttgga cccaaggagc gaaacacacc gagtcaaatt   540

ga   542

<210>   4135
<211>   522
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h05d1

<400>   4135

ccaaaacaaa acactgacat aaatagtaga aatacgggca tcatttgtta taagaaaata   60

tatcaaattc tacattgata aaccaggaga cagtattttc tataagtacc acccctaaag   120

aaaatccaga attaaagcca acttaacaaa accagcatcc accatatata attcagaaac   180

aaatgcaaag ctaacaaata gaacctaagc ctcggtggta ggatactcaa acacaatatc   240

tttgcccgaa agtttcctgt atactgcagc aaaagtctcc aatttgtact cggtgttgtt   300

tcgctccttg gggtccaaaa agaccttcat aatcttggaa ccatcaattt tatacctaac   360

acgctttcca acaatctcag caggcaatac aatatcttcc agcattgcct cgtgtacagc   420

agtgagtgtt cgggtgcggg gacgctgaac agcagaacct ttctttggtg gcctcaatat   480

ccctccggtg ggcatccagg atacattcct ttcactaaac tt   522

<210>   4136
<211>   352
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h06a1

<400>   4136

ggcctaaaag gcctcggtct aatgcagttc cttcatcccc agattcttct gttcttactc   60

gagaagcatc atctaaagtg agcatagacc cttcaccggc aaatggcttt ccaagggtct   120

tgcaaggtca agaattctcg accttgagag gcaattttgc tgaaagtaat gagtctgata 180

ctgctgagaa gtctgttgtt tggccacctg ctgcagtaga tgatgaaaag atggatgttt 240

ctacttcaag gaggtatggt tcagagagct ggatgtcaat ggggaggaat gagcctacat 300

attcggatct tccttcaagc ttttggggcc atggggatcc ttctcattat cc 352

<210>   4137
<211>   465
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h06d1

<400>   4137

acacttaaaa caaaatttaa ttatacagca tgcagaatgg aatctcgata atttccatct 60

cacaaattat gactaataag aatcaaaatt aaaatcaaat aaactggata ccaaccacaa 120

ggcctccctg gtatactatc aattttcatt acattaacgg tttgttgttc agagggtaga 180

tgagaaacaa ctatgtacag ctacaaggtg ggattgtttg gaaaagaaaa gcaaggttga 240

tatcacccta tatcacctca ctcaaaaaca caattgatta catactaggg attgtatata 300

gctgagcatt atactactaa ttccgggatt tccaaaattg aacggatact ctttcgtgcc 360

atcttatata ttgattcgaa gcagtcactg ataagcagca gtcagcctcg atttcgtctt 420

caagttagtt ttccaactgg atggcttcat ggcagttccc tactt 465

<210>   4138
<211>   547
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h07a1

<400>   4138

ggtagtggct gtagaggaaa cactcctgtt ttgtgcgcat attgatattg gaatagtctt 60

tctctgaacc ccatttttgc aaaaaggaag aaagagaaag agagagagag agagagagaa 120

gagatataca ctgccaagaa gaagaacatg aaaattcagt gcgatgtgtg tgagaaagcc 180

ccggcaaccg tgatttgctg cgcagatgag gcagctttgt gtgccaaatg tgacgttgaa 240

gttcatgctg caaacaagct tgcaagcaag caccagaggc ttctccttca atctttatct 300

aacaagcttc ccagatgtga catatgtcaa gataagccag cttcatatt ttgtgttgag   360

gacagagcac tcttctgtaa agactgtgat gaacctattc atttagccag tagcctttct   420

gcaaaccacc agcgcttact tgctactggt atccgggtgg ctttgggttc taattgcacc   480

aaaggcaatg aaaaaggtca cgtggaacca tctaaaccaa aagcacaaga agttcctgcg   540

aaaattc   547

<210>   4139
<211>   406
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h07d1

<400>   4139

gatcttcaac acaagcatac ataattaacc attcaagttc acgtggattg ttgtgtggtg   60

tgagcaccta taggatgtaa acagtgatga tcacaaagag caaggaaaat ttaatcccct   120

aaggtttaat ttatgctata ttctaaaaat caaaccattc atagctccta aaatgagata   180

tttatcaact ccacaagcta gttaacatac ttcattactt actgtcctaa gagaagtatg   240

catatacagc tcatcaatct acagattcat gcaatagtcc tcatggtcct gagcttcagc   300

tagaccaggc acattgaaga gttcattaac atctgcacct agtatgcata tacaactcgt   360

caacctactg cctactgatt caggcaattg tttacatgac catgtg   406

<210>   4140
<211>   575
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h08a1

<400>   4140

ctagatcaca gagaggttaa gtccttcata agcagcatcc cttgtgtttc aagcaagctt   60

agaaaatcaa atgaggaagc ttattcacca aagtttgtca gcattggacc cttatacaga   120

ggaacaagta gccaccttct ggccatggaa gagcacaaat ggcgttacat gctggctctc   180

cttcatagaa ctcaaaatcc agtttcaacc ttggatgaat gtggcactgt cattctaggc   240

ttggacgatg cagttcgtgc aagctatgga ggtaacatca aatatgaagc tcatgagcta   300

gccaaaataa tgttacttga tggctccttc ttgctagaac ttcttcttag atgcgcacca   360

ccaaacatgg ttcctcaaat tccaaaagaa gataaccata ataatggttc ttcttcagat   420

ccaatactag gacacaaaga ggtgttttta tctattctca ccgatttcac tctactagag   480

aaccaaatgc ccttttttgt tctcaagaca ttggctagga tgcttttttcc caatgtcttc   540

acaagtgaag ctgatcacct tggtgctgat ctcac   575

<210>   4141
<211>   573
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220061h08d1

<400>   4141

actactatat aaataaaaga aaatatttat tgcgtccttt cacttttttt gcattagtac   60

aatatttctg gtctatcatg aatcatggat ttcatggtta cagttacact tacaaaattt   120

acttagccac gggctgaata gtaggtttgc ataatggtaa gagcaagcag agcagcagct   180

accacaatcc ctatcaattt ccacacattt gggatatgat ctctaatcaa gattttatag   240

ctgtgtttgc aagagtatct gatgcattct acacaaaggt tgcaacaatg caacatcagt   300

atagggaact tcctcaaggg gttcactgct gagtaagcat tcaagtcctc acaaagtttg   360

ctgtaactat tgtccatttg gtccactccc tttgtgattg tgccaaacaa agtgagcaaa   420

tctctgttgc tgatcttagt acctttcacc aaaacaccat tttccacaag cagctcaata   480

tcttgcacag aacacatcat gcctctaaga aacaaagcat tagaagtgaa ttgccctgtg   540

atgccaattc tacttngctt cccatgcatg aag   573

<210>   4142
<211>   559
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220061h09a1

<400>   4142

cgtcaagcta ccaaagacgc tggtgtcatt gctggtctaa atgtgatgcg aattatcaat   60

1720

gagcctactg cagctgccat tgcatatggt cttgataaga aggccacgag tgttggtgag   120

aagaatgtgt tgattttga ccttggtggt gggacatttg atgtgtcttt actcaccatt   180

gaggagggta tctttgaggt gaaagccact gctggttgac accccatctt ggaaggtgaa   240

agattttga taccaggatg gtgaaccact ttgttcaaga gttcaagaga aagaacaaga   300

aggacattag tggataccc agagcactta gaaggttgag gactgcttgt gagagggcca   360

agagaacact ttcatcgact gctcagacca ccattgaaat tgattctcta tacgagggaa   420

ttgatttcta ctgcactgat actcgtgcca gatttgagga gcttaacatg gatctcttca   480

ggaaatgtat ggagcccgtg gagaaatgtt tgatggatgc taagatggac acaagacgtg   540

ttgatgatgt tgtccttgt   559

<210>   4143
<211>   451
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h09d1

<400>   4143

atcagaaggg aaaaatagtt tgaatcccat ccaacaaaaa tcatgcgatt aaaatccaat   60

taaaaaagca taaagtaaaa taagttttta aaacaggtat ctggaggaaa gcaactacat   120

ttagtccact tcctcaatct tggggccagc accacttcca ccagaaggag gagcagcata   180

ctcatcctct gctgcaccag caccacccac gtctggacca gcaccacctt ggtacatctt   240

ggcaatgatt ggattgcaga tgctttccaa ttccttcatt ttgtcctcaa actcatctgc   300

ttctgcaagc tggttgctgt ctaaccactg gattgcttgc tcaattgcat cctcaatctt   360

cttcttgtca gccgggtcaa gtttctcacc aatcttgtca tccttcacgg tgttcctcat   420

gttgtatgca taagttttcc aaagcgtttt t   451

<210>   4144
<211>   513
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h10a1

<400>   4144

```
gatgaatgaa gcggctattc ttgcagccag gcgtgacctc aaggaaataa gtaaagatga    60

gatatctgat gcgcttgaaa ggatcatagc tggacctgag aagaaaaatg ctgttgtctc   120

agatgagaag aagaaattag tagcctatca tgaggctggc catgctctag tgggtgcttt   180

aatgccagaa tatgaccctg tagccaagat atcaattatt cctcgtggcc aagctggtgg   240

tctcacattt tttgctccca gcgaagagag gctcgagtct ggattgtaca gtagaagtta   300

ccttgaaaat cagatggctg ttgccctggg tggaagggtt gccgaagagg ttattttttgg   360

ccaggaaaat gtcaccaccg gagcatcaaa cgacttcatg caagtttcac gagtggcaag   420

gcagatggtt gagagatttg gattcagcaa aaaaattgga caagttgcca ttggtggacc   480

tggtggaaat ccattcttgg tcaacagatg tca                                513


         <210>     4145
         <211>     394
         <212>     DNA
         <213>     Glycine max

         <223>     Clone ID: jC-gmfl02220061h10d1

         <400>     4145

gtgctaattg ttttttctcc ttgaatttga taaaataatt attgattctt acagtgtaca    60

agtcagagcg tattttatag tacaaacata attctgtgac ttgcgtgtat gattatgcaa   120

catataattc ggcttttcca tcaatgaata gactcatgaa ctcttcacca tccacagttt   180

cttttctat gagaagttga gcaagcttgt gaaggatatc aatgtgagtt gagataatat   240

gtgttgccct agaatatgct ctctctacca gttccctcac tttcgcattc actacatccg   300

cagttgccat ggagtaatcc ttttgcgatg acatctgttg acccaagaat ggatttccac   360

caggtccacc aatggcaact tgtccaattt tttt                                394


         <210>     4146
         <211>     507
         <212>     DNA
         <213>     Glycine max

         <223>     Clone ID: jC-gmfl02220061h11a1

         <400>     4146

tgcatcatag agtatggcca gccacgatct tcgattcttc gagttgaaca caggcgctaa    60
```

1722

gataccttcc gttggtttgg gaacgtggct cgctgaacct ggcgttgttg ctcgcgcctt 120

ggccactgca ataaacgttg gatatcggca tatagattgt gcgcaaattt atggcaatga 180

aaaggagatt ggtgctgcct tgaagaagtt atttgctgat ggtgtagtta agcgtgaaga 240

tatgtttatc acctccaagc tatggtgtaa tgatcacttg ccggaaaatg tcccagaggc 300

atttgataaa actttacaag atttgcaact ggactatttg gatctctacc ttatccattg 360

gccagtcagt gcgaaaaacg ggaagcttac caaacctgac atacctagca catggagagc 420

aatggaagca ctctacaatt ctggcaaggc tcaagctata ggggtcagca atttctctgt 480

aaagaagctt caggatttga tggatgt 507

<210>   4147
<211>   545
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h11d1

<400>   4147

ataactaac attttccgat ctaaacgata ttagacttct aacaatagtt ttgtcaaaca 60

cacaataagg tcaagactca aacaactgaa ttccaaaatg acacgttatt aatgtaaact 120

cgaaatctcc cttgacacat ctcaagtcca aaattataaa cacatcgtag attattacaa 180

taatcataaa gataggctca tttttgcatt aagcaagagg gggggatgtg gccaatatgg 240

aaactgtcca ttactcatcc cagagttctt caattgtttt gtacccggga gatgtcttgc 300

taaaaaaacc atctccagta actattctct cctgcttaat gtcagagaag ttggcaagca 360

aatctgcagg tatggaccaa tcaaagagat caaagttttc cttgagcctt gcatcatttg 420

tgctcttggg aagcacactg tggcccattt gtagtcccca tctaagagct atttgtgctg 480

cagtcttccc taacttctct gcagttgtgt gcagaaatgg attttaaga atattacttt 540

cactg 545

<210>   4148
<211>   521
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220061h12a1

<400>   4148

acttttgttc gtactgtcca gcatttacca taatgctata attttaagaa ttttgataat   60

tctaattcta tgatggtatg atatgattac tgtcttgtcg ggtccgatag gaactttagc   120

caatcagttt tttgaatcca ggaagctttc acaaccaacc ttttccgatc tttctctcaa   180

accggctcgc atttccagaa aaaccctgag cttgaagatg gcccaagttg ctcaaaaccc   240

ttctcagcag cagaaagtca taataactaa caagtatggc aataaactag tgggcatttt   300

gcatgaatct ggaaccaaag agattgttat cctatgccat ggtcttcgat ccactaagga   360

agacgatatc ataaaaaatc ttgctgctgc tctagaaaat gcaggagtca gttctttttcg   420

ctttgacttc actggaaatg gggaaagtga aggttcattt gagtttggtc actattggag   480

ggaggttgat gatcttgcat gatgtggttc aacactttca t   521

<210>   .4149
<211>   520
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220061h12d1

<400>   4149

agaaatcaat cttacaaata ttttcatcat ttttaagatg ttcatcaaac aggtgacgac   60

taaacagtct ttaccataag gtttccttac acttattcta taatactgag gtgtccccag   120

acccttaaaa tgtgggaata accccccact atggctacca tatgctacca tgagataact   180

gtttacatat tgcatttgtc ataattgata atttaaaaat gacattgtat actcccagat   240

atttctctcg ccattatttt catcatgatg caagattcac caattttata agcaaaaact   300

agaagagctc aaacatgctg cagaacatca taggcatgtt catccacaac tgaaattttg   360

tcacctgttg caatttcaat tggctcgtaa ctgcaaggtc taccacaatt acacatcatt   420

agaaaaatgg accaaggctt cctttatgcg gttcacaaca acagaggcta attcatcttg   480

atgatagtgt atgaatgatc agctncctct atgataatta   520

<210>   4150
<211>   501
<212>   DNA
<213>   Glycine max

<400> 4150

tgacctgcac tgagcatcgt ctagctatct cgatcgaagc tgtccaaggt cgctgtcagc   60

tttgtaggca ggggacggga cctaacgcat gaaagagggg cggggtgaag gggccgggat 120

gggggaatag cgccgcgacc ccatggtggt accgcgagcc gccaaagtga ccagccacgt 180

gggaggcaac accgttgagg ataacgtgtt gatgccaccg tttgatggac taaataataa 240

ccggtggtac aagagaacca cccaaagcca atggattaaa gacgggccga agtggccaat 300

gccataccca tggcaaagcc ggctgcttgg gcaaaaacgt ggttcgtaac aaaaggttag 360

gaaaaagcgc tgtttacaac tgtttcccga cgtgatgctg cgagacgtag tgagcgataa 420

cgtgcacaaa caatggccgg ccaactaaaa gatccgagac accaaagcgg tatccaggga 480

gccaaggcca taagtaaaaa g   501

<210>   4151
<211>   494
<212>   DNA
<213>   Glycine max

<400>   4151

gatatttccc ttttgaggtt tgattagtgt ggcctagtta atttgttttc tcgatgagaa   60

tgagaaagca atccactatg caatgcgcac tttttcgctt ctgggttccc ttgttactac 120

ttgccagctt cagttatgct ccttctgttt tggccacaac tgaaatttca gggaatcaag 180

tgaacatgga tgggaaggtt gtaaatgaag agttaggaaa acctaatcta aaaggacaag 240

atgaagaaga aaaattcaaa ggactttttc caaaaccaat tccaattgtt aaaccttttc 300

caaagctcat tcctataatt aaacctattc caaagccaat tccggttgtt aaaccaattc 360

ctattccact ttataagcct tttccaaaat caattcctat tgttaagcct attccaaagc 420

caatcccaaa tggtaagcca attccaactg aagaagcaaa attcaaaggt ttttttccaa 480

aacctattcc cata   494

<210>   4152
<211>   500

<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220062a02d1

<400>   4152

acttataata taatcaatct tataaaaact aatattgaaa tcttcattaa ggagaacaca   60

ttaactacat atattccaat ccagtacaca agaggggtac agaaggatta ttatctaaat   120

catgattgag gttgaggtgt gggaaaacta catataataa ggtattagaa atggaaggaa   180

tgactttatt gcttgtagac ctagagtgtt atcattttat ggagttggaa ttgccttgtg   240

aattggaaat ggtggtagaa gtggtttctt aaatttggga ttaagaggaa attttggaag   300

aggctttttg aagaaaggct ttggttttaa aaatttctct ggctcaacag cagggatggg   360

tttttgcact ataaatggtt ttgatatagg cttaacaatg gaaattggct ttggaattgg   420

ctctaaaatg ggaattggct ttggtatagg cttaacagtg ggaaatgatt ctgaataggc   480

ttatatactg tgatagggat   500

<210>   4153
<211>   499
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220062a03a1

<400>   4153

ggacttcaag aactatgagc tcaaggaggg gctgcttcgt gctgtcgctg gcaccggcat   60

gtgggagtgt gtggacttct tccctgtgtc caaggagaat gagaatggat tggatacttc   120

tattaatggg gctgaggtga agcatgtgat gaaggtgagc ctggatgatg atagacatga   180

ttactattca attgggactt atgatgagaa gaatgttctg ttcacaccag atgatgctaa   240

gaatgatgtt ggcgttggat tgaggtatga ctatgggata ttctatgcat ccaagacgtt   300

ttatgatcag aataaggaga ggagagtttt gtggggttgg attggggagt ctgacagtga   360

atatgctgat gtggccaaag gttgggcttc agttcagagt attcctagaa ctgtggagct   420

tgataggaag actggcagcc acttacttca gtggcctgtt gctgagatcg agagtttgag   480

attgagaagt gatgaaatt   499

1726

<210> 4154
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062a03d1

<400> 4154

ccatatgtaa atattttttag catagaattg gataacatta acatcatatt tctttgaaca   60

gattctcttg taagcatcat ttcacatgat atgataaaat tacaacaaaa attctgataa   120

acataactgg gcaaaaatga aggaatgcgc tttgagcaag aaccataacc ttatgtcggt   180

tattcagggg aggacattac aactgataag tacaaattgc caacccaaga tgtattccaa   240

tcctttgtga ctatagctct tctatctcca attcaaattt ttaactcttc tgatcagggt   300

ggaatgggcg tataaatgca gaattcattt gccaaacttt tagtgaggct gtcacagtgg   360

cctcggtagc attgttgaac aagaacaacc tagcagctcc atagattgcc tttgttggat   420

aaacccgaga tgtcacaacc gtccttccac cttgagcaaa gctttcaaca atagaatggt   480

ccaccagtat tccgcaggaa aacttt   506

<210> 4155
<211> 489
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062a04a1

<400> 4155

agataatgga gtcgtgtccg agaactgata tagagaacct tgaagacttg ctcgaggagg   60

agaatctcta tttgaatata gaggaaggag agcaaggacg gttgcctttg ttgattttga   120

agttgaagga aagcgataag cagagaaaaa ggcctgcagt tgttttttctt cacagtacga   180

acaaatacaa agaagtccta cgtccattgc ttaaggcgta tgcttcgcga ggatatatag   240

caatttctga tgattctcgt taccatggag aacgtgctac cagcgcaacc acctatcgcg   300

atgcacttat ttctgcatgg aaaactggtg agacgatgcc attcatattt gacacggtct   360

gggacttgat tagattggca gattatctaa cacagagaga ggatatagac ccttctagga   420

taggaatcac tggaatatca cttggaggaa tgcatgcatg gtttgctgca gttgctgata   480

cttgctatg   489

1727

<210> 4156
<211> 84
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062a04d1

<400> 4156

acgacctttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt   60

tttttttttt tatttttata atat   84

<210> 4157
<211> 584
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062a05a1

<400> 4157

tttaccttct attgctgaaa atggtgaatc tcggcatccc agactagaca ttccagcacc   60

tgattacatg caatccaatc acaaggatgg tggggtttct gtaagttcaa ctacatcaaa   120

acttgccaat cccaatactc gattaccagg aacaagttca gcaaattcca gtgcttcttc   180

agctgcactt ggtcaaaaga aattgtatgc agaatcccag acaggaaagt ccactttca   240

aaagcttttg gagccaatgc ttcctcaact tcctggaatt gctccttata gaattgtcct   300

ggggaatgtt aaggataagc ttgagaaaag tcgtagacgg ttagaaattc ttcttgagga   360

tgttgcatgt gactatgatc ctttggatta ctatgaaaca tctgatcagc ttttggaacc   420

tctgctcctc tgttatgaat ctctgcaatc gtgtggatct ggggtgctag ctgatggtcg   480

acttgctgat ctgattcgta gagttgctac ctttggaatg ngtgtaatga agcttgactt   540

gcgtcaggaa tcttggagac atgcagaagc acttgatgca ataa   584

<210> 4158
<211> 606
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062a06a1

1728

<400> 4158

```
ctcggctact tggacttgag tgacaatgcc ttgagtggtg aaatcccaag tgagctatgt   60

tacttgccca aactcgagga actccatctc aactccaacg acctcgtggg gtccattcca  120

gttgcaattg ggaacctcac gaagttgcag aagcttatcc tctacgacaa tcaactcggc  180

ggcaaaattc ccggcaccat cgggaacctt aagagccttc aagtgataag agcaggtgga  240

aacaagaacc tggaaggcct tttaccacaa gaaattggca attgttccag tttggtcatg  300

ttgggtcttg ctgaaactag cctttcaggt tctctacctn caactcttgg ccttttgaag  360

aaccttgaaa ccattgccat ttacacttcc ctactctcag gtgaaatacc acctgaactt  420

gggtactgca cagggctcca aaacatatat ctttacgaga actccctcac tggatccata  480

ccaagcaagt tgggaaacct taagaacctc gaaaaccttc tcctgtggca gaacaaccta  540

gttggcacca tcccttcaga gattggatac tgcgagatgt tgtcagtgat tgacgtgtca  600

atgaac                                                            606
```

<210> 4159
<211> 584
<212> DNA
<213> Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062a07a1

<400> 4159

```
aacactcact cattgaggct cacacataat ggaagaagcc tggttcataa tcctagtctc   60

tctctgtgtc tgcgttctca taagagtcat attattattc ttccttcaca aaaaaaccct  120

agccacccca ccaggccctc ctcacatccc aatcatcaca agctttctat ggctcaaaaa  180

atccttcata gaactcgagc cattcctccg aaccctcgcc gccaaacacg tcctatctt  240

cactctccgc ataggatcac gccccgtcat attcatcgcc aacagagccc tggcccacca  300

agccctaatc caaaacggtt ccattttctc cgatcgcccc aaggccctcc ccgccgccaa  360

aatcgtcagc agcaaccaac acaacatcaa ctccgtcccc tacggcgcca cctggcgcgc  420

cctacgccgc aacctcgcct tcgagatgct ccacccctca cgcgtcatgt ccttctccgg  480

tacccgcaag tgggtcctac acaccctcct cacgcgcctc anatcagatt cacaatccaa  540
```
```

1729

cgattcaata taagtcatta accacttcca atactccatg ttct                     584

<210>       4160
<211>       557
<212>       DNA
<213>       Glycine max

<223>       unsure at all n locations
<223>       Clone ID: jC-gmfl02220062a08a1

<400>       4160

ctctgttctc ttcaccattc tctttcttct ttgtttcaag tttcaacaac ccagattcac     60

tctctctctc gtaattttct ctcttattga ggctagaaaa agagagcaaa aaaactaaaa    120

aatgcctgcg gtcggaggta taaacaccgg aggggcaag gagtaccctg gaagcctcac      180

tctatttgtg acggtaacat gtatagttgc agccatgggt ggtttaatct tcggttacga    240

tatcggaatt tcaggtggag tgacgtccat ggatccgttt ctgctcaagt tntttccgtc    300

agtgttccgg aagaaaaact ccgacaaaac ggtgaaccag tactgccaat acgacagcca    360

gacactgacg atgttcacgt cgtccttgta cctcgccgct ttgctgtcgt cgttggttgc    420

cgccaccgtc acgcgtaaat tcggccggaa actctccatg cttttcggag gcttgctttt    480

cctcgtcggt gccctcataa acggtttcgc ccaacacgtt tggatgntaa tcgtgggtcg    540

gatctttgct cggttcg                                                   557

<210>       4161
<211>       287
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220062a09a1

<400>       4161

accagtggag gaagattaat ttggcgtaca tgggaaagcc aggcatttgt tcatcaccct     60

ctcatcaact tgttctttaa ttttaatttc tataatagta ataatattta tttgtgttgc    120

aagttgcaat tgatgatgat cacttatatt ttcactctcg ttatattttt gtcggttcag    180

taagtcttag agatagttac agctagaaga catttgtaaa cggtttagg acatcatggt     240

cgtcaaatta aaaacagtga aataaaattt gtggctggtt ttccaaa                  287

<210>    4162
<211>    545
<212>    DNA
<213>    Glycine max

<223>    unsure at all n locations
<223>    Clone ID: jC-gmfl02220062a10a1

<400>    4162

cttcaaccaa agccaaagtc tcaatttgtt taagcactac tgctaccaaa ccaaaagggt    60

ttcgttcctt agggcggttt tccgatttct cggaaaccgc tctatatacc ctgcactgca   120

accacattcg ttatagtgtt cctaatttga aagaaagaga gaaagaaaaa attaatgtcc   180

ttggatttgt agaaattaat aaataatttt ggacgccctc tcccctcact cgcgactatg   240

ggtgcaaaac ggcaacaacc cagtgaatgg gtgaaaggta aacttgtagg gtgtggatct   300

tttggcaatg tccatttggc aatgaacaaa accaccggtg ggctttttgt tgtgaaatca   360

ccacattcca gggctgaacg ccatgctttg gataaagagg tgaaaatcct aaacacttta   420

aattcatcac catacattgt ccaatgtttg gggaccgagg aggaggaaga agaccaaggc   480

aagctcaatg tttttatgga gtacatggcc ggnggtaatt tggcagacat ggtgcacaag   540

tttgg                                                                545


<210>    4163
<211>    567
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220062a11a1

<400>    4163

ttggaatgga gatcccagta gaaaagattt tcctggcaca gaagatgatg atatacaagt    60

gtaatcttgt tgggaagcca gtggtgactg ctacccaaat gcttgaatca atgataaagt   120

ctcccaggcc aacccgagct gaagcaactg atgtagctaa tgcagttctt gatggaacag   180

attgtgtgat gcttagtggt gaaagtgctg ctggggcata cccagaactt gctgtgaaaa   240

tcatggctcg catttgcatt gaagcagaat catcccttga ctatggtgcc atcttcaaag   300

agatgataag gtctacccca ttgcctatga gtccattgga gagccttgca tcatctgctg   360

tccgcacagc aaacaaggcc aaagcaaaac tcattgttgt gctgacacgt ggcgggtcta   420

cagccaagtt agttgccaag tataggccag cggttccaat attgtcggtg gtggtttcag    480

tgttgagcac ggactcattt gattggacct gcagtgatga gacgccagca aggcacagcc    540

tgatatacag gggcttgatt cctatac                                       567


<210>      4164
<211>      526
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220062a12a1

<400>      4164

caataatgaa gatactcctg tcaaggatga atttatacgt cttccagctg aaataaaaaa     60

tattgaaaag gattcttttg tctttcattt tgctagtgga aatgtagatt atggtatcaa    120

agaagataaa attcccaaca tcaaagtagc agccctagca gcacaaggaa tctccgagct    180

tatgcctcct gatgttgcta atgcattttg gagttctgac aaagtctctt ctaaggtctc    240

caaaagcatg cgtgatattg tcagagttgc tatgagtcaa gcacagaaaa gaacaagatt    300

atctggggat acaaatttta gccggattat ctgttcaaga ggggattctg atccttttga    360

tggactctat gttggtgcat ttggtcctta tggcatggaa atagtgcatt tgaggcgaaa    420

atttggacat tggaatgaag tgaacaatga aaacaacact tcagatgttg gattctttga    480

atatgtagag gctgtgaagt taactgggga tcttaatgtt ccagct                 526


<210>      4165
<211>      412
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220062b01a1

<400>      4165

gacctgcaat gagcatcgtc tagctatctc gatcgaactg tccaagttcc tgtcacccac     60

acacaaacac acccacgaac gcccgaaacc aatcaaaatg aacagataaa ttgaatatag    120

tatacagttg gcaacatcat catcctaaag ccgttcgggt cactgtgtat acgtcgggta    180

ttgggcacgc ttctgttcag tttcagggtg tgtttttttt cttcgttggt cataattgtt    240

ctcttcaaat ggttctgttg ttgtacgagt tcgcatcctc gggtatccta gtgttgtttg    300

tagttgttct ggtttgttta atggttactc gttcgtgacg tattaactct cttctaatgc    360

tctaatagtc cgctctaagc gtgtttggtc gccgtaataa tagcataatg tg    412


<210>    4166
<211>    544
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220062b02a1

<400>    4166

ctcgagccga atcggctcga ggccaaggag aaaagaaaaa aaaaagaac tggactcctt    60

caattagtgc attgtttctt ttcttcaaat ggtagcaaga agacattgtt aatttgagag    120

atggcgagtt acgaggctat taagaacttt gatgatgatg atgatgatga tgatgatgtg    180

gagatggcac tcccccatag ccagatctct gaatcaagat ctgccactgt ttcttccccc    240

attggccaaa ctaccccgct tcacattcac aacattattg aggaacaacg cattatctcc    300

aggcaccaac ctcaacccaa atctccgcgt ctggtttctc ttgatgtttt tcgtggtctc    360

accgtcgcgc tgatgatact tgttgatgat gctggcggac tcattcctgc gctcaaccat    420

tccccatgga atggtttaac actagctgat tatgtcatgc cattttttcct atttattggt    480

ggtgtttcgc ttgcactctc atacaagaaa ctgtccttgt ggagttgatg catctagaaa    540

agca    544


<210>    4167
<211>    530
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220062b02d1

<400>    4167

aaatataaaa ctaaatttta cattaatatc gtatcgtgtc caatgatgct tactctcttg    60

aaatctatca tttcaaggat ataaagtaaa agtacaaatt atatcgcagt ggtgctatta    120

taaacaaacg ctgctccata tatagaaaag gtaatgccat caagagatgt agtgaactct    180

aaactatatc catcatccat gcaggtgacg tcatcaagag attagaagaa tatgctacac    240

ccgttcttgt tcttgatcaa aagattagct ccaaaaactc gggtagccat ttcttttaca    300

```
gtaaaacatg ttcacagtct tactgcatat aatcttttat ccaatagcat gtttatgtgc  360

ctttcttcaa gtgccaactc caattaactt gagaatgtta ttgtgaggac ttccccaata  420

aaatccttga aggaaaattg ggaaaacatt gcaagcagca aggatataaa tcattaatgc  480

atgcatgccc atccattcca taaccaaagt catgcgacga catccacaga             530


<210>       4168
<211>       519
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220062b03a1

<400>       4168

aaaaccaagc gcacgcttcc gccactcact ctcacccctc ctatccccca ctttcaagcc   60

atattcttct tcagcttcgg ccttagttcc cgaacttgat attcaacccg acactcccca  120

gaaccctaat ctctcccccg aagaaacaac cttagccgac aagttccacg ccgcaattaa  180

agagcaccac cgcagaaacc ccacacccaa ccctaacgcc cctcccccaa ctcccaacct  240

caccatcccc gacctctccc tcgccttttc cgctatctcc gccgcccacc caatctcccc  300

ctccgtcgcc caccgcgtca tcgagaaatg cggcggcgtc cgccacggca tccccttcct  360

ccaatccctt gccttcttca actggtcctc ctctctcgac ggcttccccg cctcgccgga  420

gccctacaac gagatgctcg acctcgccgg aaaggtgaga caattcgacc tagcctggca  480

cgtcatcgat ctcatgaagt ctcgcggcgt cgaaatcac               519


<210>       4169
<211>       448
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220062b03d1

<400>       4169

accatacaga ataacagaat tcttaggagt gctgatttat gaacacttaa acaatccaaa   60

tatataattg acccgcttca tttctcccta tttttctctt cattacatca catcactaat  120

catatcaaca cctgtctctc ttctctagtt tcttgatgtc tgtatagata ttcctattca  180

cgggcagtac aaaaaatgct gttgatgcaa gtctcgagag agaggtatcc atagaccgcc  240
```

```
tcccacttgt aagagcatct cagtctcttt tgaacatgcc gtaagttgtt agcaacttca  300

cgaacaacag gaacacattt gcctagcata cagcatttca ttctgccaaa ccagtccatg  360

gcttataaag cataatttag catttcataa aaaataaatg gcaaccgtag ttagatgtaa  420

ataatatgaa cagaaacaaa tttgaaac                                      448


<210>      4170
<211>      436
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220062b04a1

<400>      4170

gcaaattaat gagattgtac atttgcaaca tcattttgct gacaaattaa gaaattgttt   60

tattgaacaa cctctatgca ggattcctag gacagaagtg tttcactatg gcttctctag  120

ctaggtacca tcttgagcct gttaaattga acaggtgttt ttgttgcagt attagatgat  180

atctgctgag taaatatctt ggtgtacagg tgtgtgtata tatatatata tatatatatg  240

tacacatttg tatgtgtgag acgagaaaaa ttaggagaga aaggagaaag gaaaggagat  300

tcttagacta aaatccaatg ggtttagaat aagcttggaa gtctttattg gaattctgta  360

gttatttttt gatttaagat ttttttactt taatcatgtt aattctcaag aaataaaaat  420

ataaaaaaaa tgctgt                                                   436


<210>      4171
<211>      409
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220062b04d1

<400>      4171

cttgagaatt aacatgatta aagtaaaaaa atcttaaaac aaaaaataac aacagaattc   60

caataaagac ttccaagctt attctaaacc attggatttt agtctaagaa tctcctttcc  120

tttctccttt ctctcctaat ttttctcgtc tcacacatac aaatgtgtac atatatatat  180

atatatat atacacacac ctgtacacca agatatttac tcagcagata tcatctaata  240

ctgcaacaaa aacacctgtt caatttaaca ggctcaagat ggtacctagc tagagaagcc  300
```

atagtgaaac acttctgtcc taggaatcct gcatagaggt tgttcaataa aacaatttct 360

taatttgtca gcaaaatgat gttgcacttg tacaatctca ttaatttgc   409

<210>   4172
<211>   547
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062b05a1

<400>   4172

ctttttccaga acagtaaaat tcaagtaaac caaaagccat aaatagtagt attaatttat   60

aatttattac tatttattat tattgtcatt ttctgttcta tattttttta aataccctga   120

aaccgcgaaa ccctagctga accctgtttc ccttctccgg ccaccgtaat ggatttcact   180

ccgccgccga tcgaggacgg tttcaccgcc gagaaactct tcacgcaggg cttctcctac   240

acatacgatg acgtcatctt tctcccccac tacatcgact tcgctgccga cgtcgtggac   300

ctctccacgc gcctcacgcg ccgncttccc cttgccgtgc cgtttgttgc ctctccgatg   360

gacaccgtgt cggagtccgc catggcctnc gccatggcct ccctcggcgg catcgccgtc   420

gtccacttca acgtcctcgc cgtcgtccag gcggccatcc ttcgcaaagc gaagtcccgc   480

cgcgtccccatcctctccga ccccgncttc ggcgcacctt ccgncgtcgt ggagcacgat   540

gacgcct   547

<210>   4173
<211>   626
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062b06a1

<400>   4173

atcaaaactc aaaacttctc ttttctttca ttctctctct tttattctta tcatcacaat   60

gccttcaatt cccgaagagc ccctcctggc tccgaacccg atcgcttct gcatgttccc   120

aatccaatac ccgcaaatct gggaaatgta caagaaagcc gaagcctcgt tctggacggc   180

ggaggaggtg gacctctccc aggacctccg ccactgggac tccctcaccg acggcgagcg   240

ccacttcgtc acccacgtcc tcgccttctt cgccgcctcc gatggcatcg tcctcgagaa   300

cctcgccggg cgcttcacaa aggagatcca gctccccgag gcccgggcct tctacggctt   360

ccagatcgcc atcgagaaca tccactccga gatgtacagc ctnctcctcg aaacctacat   420

caaggactcc gaccagaaga accacctctt ccgtgccatc gacaccatcc cctgcgtcgc   480

taagaaagcc cagtgggccc ttcgctggat cgattcctnc gacttcttcg ncgagcgtct   540

cgttgccttc gcatgtgttg aaggtatttt cttctctgta agcttctgcg ctatcttctg   600

gctcaaaaac gaggactcat gccggg   626

<210>   4174
<211>   526
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062b09a1

<400>   4174

ctctgaccat gatgctacat tgatgcattc aatctctgag atatctgggg gtacgttttc   60

tttcattgaa gctgaggatg tcattcagga tgcatttgca cagtgtattg ggggactctt   120

gagtgtggtg gtgcaagaat tacaagtaga agttaggtgt gttcaccctc aattgcaact   180

tagttcagta aaagcaggaa gttaccaaac aagcttgatg gcgaatgcaa gactggctac   240

tatcagtgta ggagatttgt atgctgaaga ggaaagagat tttttggtga cagttaatgt   300

tccagttgat aagtcaagtg ataagacatc gttgttgatc gtgaaaggtc tttaccgaga   360

tcccataaca aaagaaatgg tggctttgga agaaacagt gaagttagaa ttctgagatc   420

tgatgtcggt ggaagagaac tggttgtgtc aatacaggta gatagacagc gaaacaagct   480

gacagcagct gatgcaatgg ctgatgctag agttgcagcc gaacgc   526

<210>   4175
<211>   497
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062b11a1

<400>   4175

ctcttcgtgc agattacatg atctttattg taaatcatgc ttgataattt gttgtttctc   60

```
tttaggtgac aaaatggctc tcgcggacat aatcccaaat tccaccttgg ccttaaacac    120

gaccctatgg gtttgcgagc acacaactaa gtttcaacgt aattcaaagg gaatattcta    180

caacggcaac cctttaaact acacattatc tgtggtctct ctgcaggcct ccttagtttg    240

tttgtccact acatggttgc aatcctttct tatcccattt ggggagacca ccttcattcc    300

acaagtgctg ggagggttgc tgacggtgcc atcaatactg ggacaaatta aaaatcttga    360

caagttgctc ttcgctccaa aacctttcta cgtgtgtgag gcaatctctc tttacgggac    420

cttgntgntc ctgttcttga tgggagtcaa aatagacata tctgtgctaa tgagactggg    480

aaaaaagaat tgggcca                                                    497
```

<210>   4176
<211>   568
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062b12a1

<400>   4176

```
ctcgagccgc ttttctctgt ttctcccttt ctctctgtct ctctctcgct cttcttctca     60

tccagcaccg agtcacagac tcaccgatct tccgattccc tttcgtcttg gtttatgagc    120

tcgaaggaga gacccactct tggtggcacg cggattaaga cccgcaaacg gaatattgct    180

gcgccgctgg accctgcagc attctcggat gcagtggtcc agatttattt ggataatgct    240

ggtgatctgg aacttattgc taagagcatt gaatcttcag accttaactt ttcaagatac    300

ggcgatacct tttttgaggt tgtttttcact gggggtcgta cacaacctgg aactaccaag    360

cctgatgagg gggaccgtca tccatactct ataatagagt gtgagcctaa gcgggaagtc    420

attttaccat ctgtaatcta catacaaaag attttgcggc gaaggccatt tcttatcaag    480

aatcttgaaa atgtcatgcg gaaattcctt cagtccttgg agcctttcga ggaaaatgag    540

aggaaaaagt tggcaatctt cacagcac                                        568
```

<210>   4177
<211>   206
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062c01a1

<400>   4177

tgagattagc actgagcatc gtctagctat ctcgatcgaa ctgtccaagg tcctgtcact   60

cgtggtgccc gaattatcct gttatgtcaa taacgctcct aaggtttaat ctggtgtggt   120

gaccccacg gtcaagttgc gcacgtgggt aagagcatcg tcggtggcaa gttgcacaag   180

ctgtgcaaaa cccatccaac caagga   206

<210>   4178
<211>   475
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062c01d1

<400>   4178

atcattccgt tccaggaagg tttcccgtca tcactgtatg acgtcctcct tctttggggg   60

ggggggggg ggggggacac ctacgtaaaa acgggtcgac aaaagaaacg agatccggga   120

tttggtaggg gtgatcaacc ctgtaatagg agtaaaaaag acaaaaaggc ggtccaacga   180

tgtcgtgaag tcaaatggtc aagattagag ctaagttatg taagtagaaa gacaaaaggg   240

gcgccataca tgttttaagt taagacacca tggtcgaacg aggaaaacca gaagaaaggg   300

aacaatgtcc gataaacaca atgtttaaaa acgtgttcgt aagaaagtac gttataaaag   360

cggtaatccg taggttccaa cagcattaac gcaacagcat tggcaattgt tattacaatt   420

aaagcgtccg gtgttcagta gtatggtctt attgcgtatt agtgccttcg tgctg   475

<210>   4179
<211>   529
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062c02a1

<400>   4179

tttcagtgag tgatcggtgt tcacttgatc cttcataagt cgtcatcatc atcatcatca   60

tcaccgttga ttgaagaaga tgccgatcag aaacatcgcc atcggaaggc ctgaagaggc   120

tactcacccc gacacgttga aggcggggtt ggctgagttc atctccacct tgatcttcgt   180

1739

gttcgccggt tcaggttccg gcatcgccta caacaagctc accgacaacg gcgccgccac 240

tcccgccggc ctcatctccg cttccatcgc ccatgctttc gccctcttcg tcgccgtctc 300

cgtcggcgcc aacatctccg gcggccacgt caaccccgcc gtcaccttcg gcgccttcgt 360

gggcggcaac atcaccttac tccgcggcat cgtctacgtc atcgcccagc tcctcggctc 420

catcgtggcc tncctcctnc tcgccttcgt cactgcctcc cctgttccag cattcgggct 480

ttacgctgga gtcggagttg gcaacgcttt ggtgttggag atcgtgatg 529

<210>   4180
<211>   442
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062c02d1

<400>   4180

aagaagtact agtgaaatgg tacaaccaac cagacccgaa taatgataca tacattcaat 60

tcaattgtgg accaggtgag agcgagagca tgcacaaaat gataattaaa ttaacttaaa 120

agaaaacttc aggatcatca accatccaac caaagatcaa cggccaccga ttcaacagga 180

aagaaaacac aaaggaagga aaaccataca cagaagaaga ttccggagaa attcaataat 240

acacattttt ttttttatt atttcatttt tcccctctag tagtcagtgc tgggaagctg 300

ctcgtgggtg tggctgatga agacaacctc gtagataagc ccagcaattc caccttcgat 360

gagagggccg gcccagtaga tccagtggtt ggtccaggtc cagctcacga cagcaggccc 420

aaatgtcaca gcagggttca tg 442

<210>   4181
<211>   418
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062c03a1

<400>   4181

aaccaaaaga tgaaaagata gaaaataatg tcaatggaaa tgatggcaac cgaacgtgtt 60

tgttatgtca ctgaattttc gccacactat tgggagtgtt ccatacagca atttgctaac 120

catagtgacg gctagatgtg gacattgtgc caatcttgct atcagttaac atgggagcgt 180

```
cacttcaagc attttccccc tcaagaccct cagtcacaga aacagcttct aagctttgaa    240

gaaccaagca gctgcaagga actgggatca tcatcttcaa aatgtaacaa aatagcgcca    300

tttcacgagg cagtagagca tgaataacct aggattccct ccattcgtcc tacagagaag    360

agacatcggg ttccttctgc ttataatcgc ttcattaaag aggaaattca aaggatta     418
```

<210>   4182
<211>   368
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062c03d1

<400>   4182

```
aaaaatatgc atactccaat aatattatag attatgatca tattataaag ggacattatt     60

atgatatata gaggaacgtg ttgtttactt aagtgctcaa attcaacaca ataaatgcaa    120

tcacaagaat agcaatcatt tcataacaac gatttataga aaagggcaat acatatatat    180

gtagtactat taaacattgg tgtgagaggc tgaggttaac ttgcaggagt ctcccatcca    240

gttgtacgat atattgggaa gaaatttgat caacctgata tttttcactg atttaggtca    300

agcataacaa aaacaagctc atactcacag gcttccattt atatcatcag tagaatccat    360

tagacttt                                                              368
```

<210>   4183
<211>   529
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062c04a1

<400>   4183

```
gattcacaca attcatactt aaaaaatcat gccatggagc acttattagt ttatacccct     60

tctggtcatt taatccaata taaactacta ccaccattgg cggcagagtc aagtgaaact    120

gtttcaagaa cagccctagt tccttcagca cagatacaag aagaagattt gcgtgtgaag    180

gttgaacctg ttcaatggtg ggatgtctgt aggagatatg attggccaga aaaagaagtg    240

tgcatattgg ggaatactgt tggtggactg gaagctgcag aaatgatctt ggatagttca    300

gattatgaag ataataatag cgtcaggaac aataattcta taaaacttaa taagcaatgt    360
```

cacttctcaa atacagaggt acatataagc tctgggcgga taccaatttg gcaagaatct   420

gaggtgtctt tctttgtgat tagtccttag ggaagctgga gagctgaatt tatgtgaact   480

taattccagt ggagaaattg aaatgggaat attcccggta tgagattga   529

<210>   4184
<211>   367
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062c04d1

<400>   4184

cctgctcagt ggtcggcggc cgcccttttt tttttttttt ttttcaaatg gtcaaatgaa   60

tctcttgaat tcagcaagag tgtcacgaga aatataaata atcctgcatg aatgagaaca   120

aaagagagca gagtaaaaca aacaagctat ctatctgccc cctcccccctt ttctctttca   180

gctgttccct ttgcctccaa agcaatgaac tatgaagaaa aaaatataat acacatataa   240

agaacccaca cccagaaccc acacaaataa ttggtagtta tgaatttcaa tatacatcat   300

ttacatggaa attagaaggt cagaagaatc attggactgg gaaggaattt cgagagtgaa   360

gaacatt   367

<210>   4185
<211>   645
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062c05a1

<400>   4185

aagcattcca tagcctccca taaaaatgaa gaatactatc ttctctgctc tctttctact   60

ttgtgccttc accacctcat acctaccttc aaccaccgcg gtggtcgata ccgacggtga   120

tattcttcag aatcctggca catactttat cttgtccgtt tttcgacccg gcggcggagt   180

agaattcgcc gccactggaa acgaaacttg ccctctcact gtcgtgcaga ctctcttcgg   240

gaggggcttt ccagcaatat tatcgtcccg gttacgaatc cctttcatcg gcgaaggaca   300

actcttcagc atcctgttcc gtattgtgcc atggtgcgcc accactcctt ctaagtggac   360

cattgtggag ggtttaccag aatcacccgc ggttaaactc actgggtacg acaacacagt   420

```
gcctggtgag tttaaaattg agaaagctaa cccttttccat aacgactata cccttttggt   480

ctgtccagct ggcgaagaaa gcatatgtgg gcatattggg aatcatttcg atgatgatgg   540

aaacaggcgt ttggtggtgt ctgaggagaa tatattaagg gttcagtttc aggaaattcg   600

atcatcagca ccggatgagg catcactggc ccttaaaaac atcat               645


<210>       4186
<211>       506
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220062c06a1

<400>       4186

ctcttcaaga gcgtattaca acaaccaaga agggctcaat tacctctgtc caagctatct    60

atgtgcctgc tgatgacttg acagatcctg ctcctgctac cactttgct cacttggatg   120

ccacaacagt gttatcacga cagatctccg agcttggtat ctatcctgct gttgacccct   180

tggattctac atctcgtatg ctttcccccc ttattttggg tgcggatcac tatgaaactg   240

ctcgtggtgt acagaaagta cttcagaact acaagaatct tcaagatatc attgctattt   300

tgggaatgga tgagctcagt gaagatgata aattgactgt tgcccgtgcc cgtaagattc   360

agcgattctt aagccagcct ttccatgttg cagaagtctt cactggtgcc ccaggaaaat   420

atgttgagtt gaaggagaac atcaccagtt tccagggtgt gttggatggc aaatacgatg   480

accttccaga gcagtcgttt tacatg                                   506


<210>       4187
<211>       602
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220062c08a1

<400>       4187

ctttgtttgc ttctcaagtc tctcgaagcc tctttctctc tcttctagaa gctatctgtg    60

tttggtgtta ctaagtctcc aacaagcaaa gtacatggtt gatttggaaa tccaggtccc   120

cacccccattc gacccgtttg ccgaggcgag agaatcggat gcccccggag caaaggagta   180

tgtgcatatt cgaattcagc agaggaatgg gaagaagagt ctgaccacag tgcaagggct   240
```

1743

gaagaaggag ttcagctacg agaagatcct caaggacctc aagaaggagt tctgctgcaa   300

cggaaccgtg gtgcaggaca aggagcttgg caagatcatc caactccaag gcgaccagcg   360

taagaacgtc tcccacttcc tcgttcaggc tggccttgtc aggaaggacc agatcaagat   420

tcatggtttt tgaccaattg gtcttgtttt tggtagtagt aatttcaagt tgttcttgag   480

tttgtgagtt ttgaaagttt ggattgtttt tctgtttgat gagtggtgtt ggaataagtt   540

tggtttggtt tggtttggtt tggtttccaa ttttaatgat tggatttcat ggatgttgtt   600

ag   602

<210>   4188
<211>   557
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062c09a1

<400>   4188

cgtatttgtt tttccaagca tggacctttc catcaacaca cgcacccctt acacgctgca   60

tcatcatcgc tccgccggtt gagatgttcc cgccgccgcc gcagacgacc ctcccctccc   120

tgccggatct actcctcacg gccctctccg tctgcttcct agtttcgtcc tcgaagcccc   180

acatcggcgg ctccacccgc tgcccccttcc cgcgtcgctt cctcaaaatc cccgccatgt   240

ccctcacaaa cacaacaacg tcgaaatcct cgaaaaacaa caatctcaac aacaccctcc   300

tccctccgcg ccgccacagc ttcgcgtccc cgcagtcgct ctcggagtgg ctgaagccgc   360

ggctcccttc cgagtcgttc gcctcgtggg gcgtgaagcc gggcaccaag aacgtgcaca   420

acctctggct cgagctctcc caggggggaaa ccttcctcgc tgactccacc cctccggtac   480

gaaccgttca cgtcgtcctc gttcgcgtca ccggaaaaca cggcatgatc cttgtagaat   540

cgcaccagga gttgtcg   557

<210>   4189
<211>   627
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062c10a1

<400>   4189

```
ctctttgggg gatgccttaa gtgaagcctc aacggtggtg tttagtctca cattgtctag    60

agatatagct taaatagaac ttataaagct tggacattcc tcttcttata agtcagtttt   120

gtggggttga agtaggtcct aagcccaact tctaacactt attataattc tatacgtaaa   180

taccttgtaa cgatcacaag acaacggaat tgtgtgacca actaattttt tatcttgcca   240

caactgattc attctgttgt ttggtagttg ttatcacagg caaaccagcc ataattgatt   300

aatttcacat tatttgaaat tttccagtgt tatttatttg tatttcaggt tgtgtttttg   360

tccatagaaa acatcatgaa ttttgcagca tcattgtgca gaagattgaa tatcaaggaa   420

ctcgcgacaa atgttcctgt gtataaaagc accagtgatg tttctggaga aggtttgagt   480

ttcacgttca ggcgttgggc ttccaaaaag actgctggtt ccacaaagaa tggacgggat   540

tcaaaaccca agaaccttgg agtgaagaaa tttggtgcga gaaggtgata cctggaaata   600

tcattgttcg acagcgtggc actcgtt                                       627


<210>      4190
<211>      525
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220062c11a1

<400>      4190

ctcgagccgc tcgagccgat tcggctcgag gttggaaagt tctattcaaa cccctggttc    60

cagtacttta accgaaaccc ctagttctat tcacgcgatt ccgcagaacc agagcgtctt   120

ctccagagaa ttgaactttt ctgagtatgg tttcgaccca aagactggga acaatcagaa   180

tcaccattct ctgaagccgg aatccggcga gattctcagc ttcggcgaga gcaagagaac   240

ctcctacggc ggcgtcaatg ggaattccaa ttccaattcc cattttttct ccggtcagtc   300

gccgtttgtt gctgctgcgg atgagaacac caacaaaaat aacatcaaca acaatgggaa   360

gacaaagtca ccgaattcgc gcggtagcaa cgacgacgga atgctttcct tcaccttcgg   420

cgtgattctt ccggcctcga atttgaagtc cggtggcggc ggcgattccg accactcgga   480

tctggaggct tcggtggtga aggacccggt ggtggagccg gagaa                   525


<210>      4191
<211>      584
<212>      DNA
```

1745

<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062d01a1

<400>   4191

tgaggctgca ctgagcatca gtctaggcta tgctgcgatg cgaacgtgat cccaagcgtc   60

catggtcaca accgcggcca gacaccataa cagctgcgta tcccaatagt agcttaaaga   120

ttaccatcga tggcgtatcc gattggcgaa accgtactac agttgaaaag gctatacctc   180

aacataggtt aacacatggc gtataccata cgcatgacca agggcgttcg cgaataaccc   240

caagacaccg cttagaattg ggttgtaacc cgtggccgta tgcgaggcac gtaagtatta   300

cttaggaacc aagcgctaaa tgggggtgag caccccgcca ggccagttgg ttcgacgcgt   360

atggatggcg acgggcgaaa ccaaccagcg tgtaccattc gtgacatgag cgagcgttaa   420

acgtcatgga gcagccgttt gcatccggct aagacacatt ggccattctg caaaagagta   480

agaatttgct gaggatgctg tggaatagtc aaagactcgg ctggacttaa aggctaggtc   540

aacttagagc taaagaggtg aaggaacata agggagcgag agat   584

<210>   4192
<211>   503
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062d02a1

<400>   4192

aaacacaaca agaagaaaga agagggtatt tctgcagcac caccaccatc aactaccgaa   60

tgtgctcttt ctcctttctc ctttcaacaa acaacaacca ccaccaccct ctgtcgccac   120

atatttaaca acaattacta caacttgact aaacaaaact gttttctttt ttttctttttt   180

tttttaccat ggaactggct ttgagtttgg gagacacgtc caagtctttt acctttctcg   240

acaaggccgc ggtgaattta cccaccaaca aggacccacc tgggttgttc agcttggcgc   300

cgagtttcgc cgccaccgcc gtcgccgccg ataaaagaag cgatgctgct gagaggaggg   360

gtttttcttc agatccaccg gttcagctcg accttcttcc tttctctccg gttctcagac   420

cccaacaaca acctncctct caacttcgga tcccttggct caccgaagca tgcggngcng   480

ccagggtgct agacgtgaac cta   503

1746

<210> 4193
<211> 347
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062d02d1

<400> 4193

acaagaaaag tctaaattat atacaaacga tataaatagg ggaaccggaa ttcctttgtc   60

tttatcctct atgatataac tataatataa ggttacatta tatcatatgt aattaaaaaa 120

ccagccaaaa aaaatgtctt ctgatgacaa atcatgaaga agctatttga tgagcttggg 180

cctgtccatt ggggaagggc aatattctgg gcttgctgaa agacaattcc actgggattt 240

gagaagcatt gttgttaacg gtggtagttt ggttagttgt ggtggaattt gtggcaaccc 300

tttcacaaga gggacacatg gtgagtgtgg tggctggaag ttgcatg   347

<210> 4194
<211> 194
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220062d03d1

<400> 4194

tcacactatt acattgttgt catcttntat atttaaatag tcttatctat actgactata   60

taatctgtaa tgctattcag ttaacttatt gattcattat aatttcatta atactatcat 120

ttactattta tatctacttt tgttatttat ggttgtattc ttaccaatta ctgaataatt 180

ccaggatcta acta   194

<210> 4195
<211> 527
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220062d04a1

<400> 4195

cttctatcac caccacgaag attaacaatg tctcacacca gaaagcactc tccttttctg 60

1747

ttcccaaatg ttgattccac tgttgtccct gacccctcca atttcttctc cccaaacctt   120

ctctcaaatc cactccccac aaactccttc ttccaaaact ttgtcctaaa aaacggtgac   180

caacctgaat acattcaccc ttacctcatc aaatcctcaa acttttctct ctccctctca   240

tacccatctc gcttcttcaa ctcctccttc atctaccaag tcttcaaccc tgatctcacc   300

atctcttcct ctcaaaaatc ccacctttcc catttgaacc acaccatctc ttcccacaat   360

gatctcagtg ttacattgga tatcccttct tccaatttga gggttttcct tgttagggga   420

agcccctttt tgaccctctc tgtgactcaa ccaacccctc tttccatcac cacaatccat   480

gcaattctct cttttttcctt cagcgagtca ctcaccaaac acttt   527

<210>   4196
<211>   609
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062d05a1

<400>   4196

cactctcatc ttcttattct tctgctttca ctctctgact caatcgttct aatccacaaa   60

aaatgacctt aaattacaac attgccctcg ccttctctgc ggtgctcacg ctgctcctct   120

ttcccctact gaccgtaggg gagctcgtgg aggagcagcc actagtcctc aagtaccaca   180

acggccagct cctgaagggc cgcatcaccg tcaatctcat ctggtacggc accttcaccc   240

cgatccaacg gtccataatc gtggacttca taaactcgtt aagcagcgcg ccaaacgcgc   300

ctctcccctc gaccgccacg tggtggaaaa ccacggagaa gtacaaggtg ggaggaggat   360

cccctgcgct cgtcgtaggg atgcagttcc tacacccggc ttacacgcta gggaaaaatc   420

tcaaaggaag agatctcctc gcactcgcgt caaagttcaa cgagattaac tcgataacgg   480

tggttgtaac ggcgaaggac gttgccgttg agggcttctg catgagccgc tgtggcaccc   540

acggctctac ccggaacgtt aaaaagtatg cccgaaccgc atatatctgg gttggaaact   600

tcgaaacac   609

<210>   4197
<211>   585
<212>   DNA
<213>   Glycine max

1748

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062d06a1

<400>   4197

ggcctcttca tggatgaaag aagagcttgt tttcctcatc tagatggtgg tacgtggtct   60

gtctctgctg aaagcggcaa atggtccttc acatccggcc ctcttgagaa gaacgtgtat   120

gaacccctat atgaagaagc aggatggggt cctactggat tctctgttga tcttatagca   180

gcacaagcag ttagatcact ccatattgca aaggaggcgg atgaagcaag gattatcttc   240

taaaggaatg ctgaatgaag tcttgtttgt gtcttttctg gtcactggag atgaagtctt   300

aatcttctgt tatcttactg gaggttgtct tctgcatatt acttctatat aatatgcttg   360

tcagctacgt tctgcttcag ttgtgactga agaacttttt gctgtgtcat catattttct   420

tctgattttc attaactgca tgcaaggctg ctaattttct attggagtga cttttcatac   480

tctgattggt atggagatnt atacttttt gagttgatta cacataatat aaatgctcga   540

gtggaactca atgactcata atttatatat acttgcattg tgccc   585

<210>   4198
<211>   585
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062d07a1

<400>   4198

ctcttcttca attcatatca tatcaattag atttagagct aaacataaaa ttgttttcac   60

ataccatgga caacaactat gactttggaa aattcagtga ccagttgagg cttgaatctg   120

gtttggccaa tctgtctctg aatgattatt ccatttggag caacagctac agcttcaaga   180

ggcctgatca gaggaggaac tttgatgtca agggcagtga tttcaacaac aacaacaact   240

catcaaaggc ttttgatgat gatatcaatg atgggtggaa gatcaccaat tccaatggac   300

cccttttctc tatgcctcac atcaacaaca acaacacttt tgaagttgga ggcttcaaca   360

agggaggatg aatctatttc aacaccaaca ccaccatttc cttctaccat tctaataacc   420

ttaacaacaa cgcttttgga ggcttcaaca agggaatcta ttccaacacc acatcctaac   480

cctatcttaa caacaaccac caacatctcg acgacaacaa caaccttaac agaaataatc   540

ttaagggcta caagacatat ttaagggtga agatcagttt acaca   585

<210> 4199
<211> 628
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062d09a1

<400> 4199

gagaaacacg cgaacaatgt ggtgagtgca tcatgcaagc ctctgcaatt gtctctgttt   60

ctgtctcttt cttccctttt tcggaagtca gcgtcaccgc ttcatcatcg gtgaaatacc   120

caaaaccaga caccgcgatc aactgattac aacagtttct tcatagcgag ttctgtcttc   180

aaaatcattg ctttatgttg gtgtctttct gggttggttg cttcttccac aatggtagag   240

agagagagag agagagaaag aaaggaaaga aagagtttgg aggaagatag agcgacatac   300

tgagaagggg gtcctactgc ttaatttttt aggggcatca acagtctctg tccatgattt   360

ttacttgggt tgggtggtgc tgctgtgtcc tcaaattgac ccatccaatc accatcactg   420

gattcagcat cacactcctt tctatctcac cattttgatc aataaaccaa agcttctctc   480

tctctctttg gtccttttc catcactagg aggatttcaa attggtcatt gagggtggct   540

caaaagctct gcttttggtc atacggacat agtgatctca ctcatatgaa gagactttca   600

acttggtgga tgggtttttgg tcttgcat   628

<210> 4200
<211> 557
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062d10a1

<400> 4200

gagaaacacg cgaacaatgt ggtgagtgca tcatgcaagc ctctgcaatt gtctctgttt   60

ctgtctcttt cttccctttt tcggaagtca gcgtcaccgc ttcatcatcg gtgaaatacc   120

caaaaccaga caccgcgatc aactgattac aacagtttct tcatagcgag ttctgtcttc   180

aaaatcattg ctttatgttg gtgtctttct gggttggttg cttcttccac aatggtagag   240

agagagagag agagagaaag aaaggaaaga aagagtttgg aggaagatag agcgacatac   300

tgagaagggg gtcctactgc ttaatttttt aggggcatca acagtctctg tccatgattg   360

1750

```
ttacttgggt tgggtggtgc tgctgtgtcc tcaaattgac ccatccaatc accatcactg    420

tattcagcat cacactcctt tctatctcac cattttgatc aatagaccaa aagctttctc    480

tctctctttg gtcccttttc catcactaag aaggatttca caattggtca ttgagggtgg    540

ctcaaaagct ctgcttc                                                   557
```

<210>   4201
<211>   524
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062d11a1

<400>   4201

```
ggaggtatgt tagttcgggc taaagcttgc agactgcctt tgttaaagaa tttcgagttg    60

ttgtcgtgca atatgattgg caaatcaatt ataaactaat ctgttattac gttattctga    120

tacttttccc tagaaatgaa ttattttgat gtatcaatta ccaaaatggt ttttttgtgc    180

ccccgtttct gtattttttct ctgatgtgtt agataaatgt gagtgcccct gactggagtt    240

tctgtgaaca ggtgcccctg ccatgacttc taggggtttg gttgaaaaag actttgagca    300

gattggtgag ttccttcacc gtgctgtgac tctcacactg gagatccaga aggagcatgg    360

caaacttctc aaggatttca acaagggtct cgtcaacaac aaggctattg aagatctcac    420

agctgatgtt gagaagttct ctgccttgat tgacatgcct ggcttacttg tatctgaaat    480

gaagacaagg attatgttca accataccac tttctactaa attg                    524
```

<210>   4202
<211>   603
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062d12a1

<400>   4202

```
gtgagtccgt gacacactta tccacctact ttcatttgag ccactcttct cagtccaaaa    60

cagtttctcg ttttctcatc tgaaaaatga ggagcatctt tgtccttctc cttgttctgg    120

gtttgtttaa gtatgcattt gctgaagaag ggttttgctc tgctccttcg gaatcgaaat    180
```

```
caaagcctct ttattggaaa gtggataacc ccactctctc acctatccac cttcaagatt    240

tgcctggatt cacacgcagt gtttataaga gtaatcatgc tttggtatca ccagaaagtc    300

atgtatatgg cccattgcct gattggatcg acacgtcagg cgcatattta atttcaccag    360

aaatgggttc acactttgta atgtacctag ctaagttgaa agaaaaatca aaatcaggac    420

tacccctgcc tggtgtggag agatttatct ntgtgctcca aggtgctgtc accctcacta    480

atgctgctgg tgttagccaa ctactgaagg ttgattctta tgcttatntt cctccaaatt    540

ttgaacattc aattgaatgt gatacacctg ctactattgt ggtattngaa ccgagatttt    600

ctc                                                                  603
```

```
<210>      4203
<211>      420
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220062e01a1

<400>      4203

tagactacac tgagcatcgt ctagctatct cgatcgaact gtccaaggtc ctgtcactga     60

ggttgtatta taaggggagg ttggttgtgg tgtggtggtc tgtatgagag aaggtaggta    120

gtgtgtgtgg ggtgtggggt actgatggga cttcctgagg taccaagtac catgacccgg    180

ggcctgtacg tgaggaagcg tttcgcgtga ggcctgcact agacctagcc gtactaaaac    240

caagtaccaa aaggaaaaac agtcattaaa agcagcacac atgggatcaa taaagccagg    300

aacaagcgta ccgggtgtac cctggtcgat gggtaagttg gcccagatga gcggcacaat    360

tgccaagaca ggggtaggtg aaccgagtta gcgtaatggt ggtatctcac gtacactgat    420
```

```
<210>      4204
<211>      476
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220062e01d1

<400>      4204

tcgattccgt tccaggaagg tttcccgtca tcactgtatg acgtcctcct tctttggggg     60

ggggggggg aagtgcttgc attgttggcg taacggtgtg gatggtggta ccgaatgcgc    120
```

tagcggcaac ttccatgtcg gaattactgg tagtaagtaa agtgagactg ggcgtcccta   180

aaaagtcagt atgcgagaga tgccgatcat agtgcgctac tactgataac acttgtagta   240

tgagacgtcc aatggcgccg caagggtaga gtctgtgtga cagtttggta cgagggngag   300

cctgggtagt gatcgggcca tgtgcatatg ggaatgccat gccaagatcg tgtgttaaca   360

ntaccagtgg gggtaagggc atggttgaga tgtcgtgaac gggcgccatg ttaagatatg   420

cgacggtatt gtgcgtaaca ctgcctggga cgagcggact actagtaagg cttttg   476

<210>   4205
<211>   352
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062e02a1

<400>   4205

cttttaccga cggaatgcaa ttcccttacg gttctcactt ttggggacta caatttctgc   60

gatggcgccc gatcctactc cgccgtgcc tagcgccagc gtcaacgacg tcagagacga   120

ctccggggtc aaaatgaagg tggacaacga agatctgctc aatgaggatt tggtgctgaa   180

acagaaatag gagcagtacg tggatcgggg acaggatcct gtcctgggat cgcagatgga   240

tgaactctgg agcgtgaggc aggactttct agcttccacg agctgtatga cttgtggtac   300

tcagccgtag aagttccttc gtcgtcatta cggcactctt aaatcgtatt at   352

<210>   4206
<211>   307
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062e02d1

<400>   4206

gcgattcaag ccatgttccc tggctgatta ctgtagctgg acttggctca cggatccaca   60

gaaattaaaa accgtcatga gctagacgac tcacttagga tctcactatc caaacgaata   120

aagggtcaaa ataagtgcc ttctacattg gggcaccatt tgaaatgcat tatcacgaac   180

tactgttcat acacttggaa cagactaaaa aagcatcacc agtgtggtat ccctgactct   240

tccgtgatat cagtattctg gatacatatt accaaacctg gaagaattgg agagcgggca   300

```
<210>      4207
<211>      535
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220062e03a1

<400>      4207

agcaagaata gtggttctgc tacctgcaag cgtgggtttg ttcagttctg ttatgagccc    60

atcaagcaga ttattaacac ttgtatgaat gatcagaagg ataagctgtg gcctatgctg   120

caaaagcttg gggtcaccat gaaatctgag gagaaggacc tcatgggtaa agcattgatg   180

aagcgtgtca tgcaaacctg gcttccagca agtagtgctc tattggaaat gatgatattt   240

catctaccct ctccatcaac agcccagaag tatcgtgtgg agaacttgta tgagggtcct   300

cttgatgatc aatatgcttc tgctatcaga aattgtgatc ctgaaggtcc tctgatgctc   360

tatgtctcca agatgattcc agcatctgat aaggggagat tttttgcctt tggccgtgta   420

ttctctggca gggtttcaac tggtttgaag gtgaagatta tgggacctaa ttatgtccct   480

ggggagaaaa aggatttgta tggtttaaag tgtgcaacga actgtcattt ggatg        535


<210>      4208
<211>      447
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220062e03d1

<400>      4208

cgcaaaataa taatttgaac caacaccgat gcaaaatcct attagagcaa aaatacatcg    60

atgcaaggac caaataacag cattacaaca ttcacgggca aaaccacaaa caaaactaac   120

agaaattaaa tctaaggtag cattgttcac aagagaaaat aaattcgact aagttcaaag   180

taaaataatt catgaaacaa atttaaagct tgtcttcaaa ctcggagaga ggagtcatct   240

gttccttcaa gcccttcctc ttgcgaatgt cagtgacaag ctgtgcagct tgtgatccag   300

cctccaatgg gtcagaagac atcatgtccc agtgatcaaa cacacattgt gggaaggcct   360

ggcctgatgt tgcagccctc aatgtgctcg agaaaccaaa ggactcgatg acagggaggt   420
```

atgccttgat gttgtatagt ggggtac   447

<210>   4209
<211>   522
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062e04a1

<400>   4209

gtaggtttct gaacactggc ctcctccttg tggccacaat ccttgtggtc aagctcatct   60

cagccttcat agtgcccaaa tccagaaaga gggtacccc aattgtgaag gggtggccct   120

taattggagg actcatccgt ttcctcaaag gtccaatctt tatgctccgt gacgagtacc   180

ctaagcttgg aagtgtcttc actctcaaac tcttccacaa gaacatcacc ttcctcattg   240

gccctgaggt ttctgcacac ttcttcaagg cctcagagac tgatctcagc cagcaagagg   300

tgtatcagtt caatgtgcca acttttggac ctggggtggt ctttgatgtt gattactctg   360

tgaggcaaga acagttcagg ttcttcactg aggctcttaa ggccaacaag ctcaagggtt   420

atgtcaatca gatggttgca gaagctgatg actatttctc atagtgggga ccaagtggtg   480

aggttgattt gaagtatgag cttgagcatc tgatcatctt ga   522

<210>   4210
<211>   454
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062e05a1

<400>   4210

gctactatct ctcacatcca catgcaaatg caagaggtgg atcccttaat gatccattgc   60

ttctgttaaa gaatcctttg gttactctct ctaccgacat tatctccctt tatatcagtt   120

gtcctaagca gagtttctaa agcaaaagaa aggaagacga aagcaaaggg taggcattga   180

cccccttagca caaaggaaaa gaggggtggc gttgtgttaa aaaaatactg aacttggttg   240

gttctaagta gaaacaaaaa ttggcatttt cccatttctg cattttcggt tcgggagagg   300

agaaaccaag aattaagaaa tgggatgctc cctaagagtt tgttgaggct tacttttggt   360

gtaggaggcg gcatgagata gaggggacga cccttataga tactacactt ggaatgtcac   420

```
atatggagac atttatccac ttggtggtaa acaa                                   454


<210>       4211
<211>       655
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220062e06a1

<400>       4211

tttgctcaaa gccaaaccaa attttctctc tttcacttat ttattgactc cccaaaagct    60

tttcaaatat ctctgttcct ctctcacgta ccttctccct atctttcact ccacttctta   120

acaccacaaa acagaacaac ggccgagcaa acaacaagaa aaatggtgtt gttgtccaaa   180

gcaacaacag aacaatactc ctacattaag aactgcatgc caaccaaatt ttcctcaaca   240

attcccatag tgaacctctc caaacctgat gcaaagaccc ttatagtgaa ggcttgtgag   300

gagtttggat tcttcaaagt catcaatcat ggtgtctcca tggaagctat atccgaattg   360

gaatatgaag ccttcaaatt cttctctatg tcactcaatg aaaaggaaaa agtaggacct   420

cccaatccat ttgggtatgg tagcaagaaa attggacaca atgtggacgt tggttggatt   480

gagtaccttc ttctcaacac caatcaagaa cacaacttct ctgtttatgg caaaaactct   540

gagaaattaa gtgtctgttg acagtacatg tcttctgtag gaagatgcat gtgagatctt   600

gagttgatgc agatgggttg agattcacac aggatgtgtt agcagcttct atgat         655


<210>       4212
<211>       616
<212>       DNA
<213>       Glycine max

<223>       unsure at all n locations
<223>       Clone ID: jC-gmfl02220062e07a1

<400>       4212

aaaccactcc agaaaaaatg gcggtgcctc ttctctcgaa gaagatcgtg aagaagaggc    60

tgaagaagtt caagaggcct caaagtgaca ggaagatttc tgtgaagaca aactggcgca   120

gaccaaaggg tatcgattcc cgtgttagga gaaagttcaa gggatgcact ttgatgccga   180

acattggtta tgcttcagac aagaagaccc gccactatct cccgaatggt ttcaagaaat   240
```

ttgttgttca caatgtgaag gatttggaac tgctcatgat gcacaacagg acttactgtg 300

ctgagattgc ccacaatata tccacaagaa agagaaaaga tatagtcgag agagccgcgc 360

agcttgaatg ttgtgtgaca tataaaacgg ccagattacg tagccaggag gatgaatagt 420

ctaaatgact ganaattact tatttgtagt gaacctggtg acactagttg tgacaattga 480

ttttgatcat cttttattct cgataaattg taggactgaa atttacttgt ttgtagtgaa 540

cctggtgaca ctagtgtgac attgtatttg atcatctttt atcctcgatt aatcgataaa 600

aaaattgctt ttgatc 616

<210>   4213
<211>   623
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062e08a1

<400>   4213

ttcgtgatta ttattatttg gatcatgctc ttcgcttcaa ttttcctttt caaatccccc 60

tgaatttttt ttctttctga atcacatcag attcaattga attataccccc ctcaatgcaa 120

tggtggtctg caaatgtcgc aaggctacta agttatattg cttcgtgcac aaagttcctg 180

tctgtgggga atgtatctgc ttcccggagc accaaatctg cgtggtccgg acttattccg 240

aatgggttat agatggggag tatgattggc ctccgaaatg ctgccaatgc cagtctgttt 300

tagaagaggg ggatggatct ccaacaactc gactgggttg tttgcatgtt atccacacaa 360

agtgcttggt ctcgcatatc aagagttttc ctccacatac tgccccagca ggatatgtgt 420

gtccttcatg ttctactacg atatggcctc ctaaaagtgt gaaagattca agatcacgtc 480

ttcattccaa gntgaaggaa gctatcatgc aatctggtat ggagaagaat gtttttggaa 540

tcatcctgat tagtgacaga attacgaagt ccttcacctg cttttgctta gacccattga 600

tattagggaa aatcatgaaa ctc 623

<210>   4214
<211>   542
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations

ttgttgttca caatgtgaag gatttggaac tgctcatgat gcacaacagg acttactgtg 300

ctgagattgc ccacaatata tccacaagaa agagaaaaga tatagtcgag agagccgcgc 360

agcttgaatg ttgtgtgaca tataaaacgg ccagattacg tagccaggag gatgaatagt 420

ctaaatgact ganaattact tatttgtagt gaacctggtg acactagttg tgacaattga 480

ttttgatcat cttttattct cgataaattg taggactgaa atttacttgt ttgtagtgaa 540

cctggtgaca ctagtgtgac attgtatttg atcatctttt atcctcgatt aatcgataaa 600

aaaattgctt ttgatc 616

<210>   4213
<211>   623
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062e08a1

<400>   4213

ttcgtgatta ttattatttg gatcatgctc ttcgcttcaa ttttcctttt caaatccccc 60

tgaatttttt ttctttctga atcacatcag attcaattga attataccccc ctcaatgcaa 120

tggtggtctg caaatgtcgc aaggctacta agttatattg cttcgtgcac aaagttcctg 180

tctgtgggga atgtatctgc ttcccggagc accaaatctg cgtggtccgg acttattccg 240

aatgggttat agatggggag tatgattggc ctccgaaatg ctgccaatgc cagtctgttt 300

tagaagaggg ggatggatct ccaacaactc gactgggttg tttgcatgtt atccacacaa 360

agtgcttggt ctcgcatatc aagagttttc ctccacatac tgccccagca ggatatgtgt 420

gtccttcatg ttctactacg atatggcctc ctaaaagtgt gaaagattca agatcacgtc 480

ttcattccaa gntgaaggaa gctatcatgc aatctggtat ggagaagaat gtttttggaa 540

tcatcctgat tagtgacaga attacgaagt ccttcacctg cttttgctta gacccattga 600

tattagggaa aatcatgaaa ctc 623

<210>   4214
<211>   542
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations

<223>   Clone ID: jC-gmfl02220062e09a1

<400>   4214

```
cagaattctc taaaagagat cttttttctgc tctttgaaga aagaagggtc tttgcttgat   60

tgtggagatg tctctgctct cagatctcat caaccttaac ctctccgata ccaccgagaa  120

ggtgatcgca gagtacatat ggatcggtgg atcaggaatg gacctgagga gcaaagcaag  180

gactctccca ggaccagtta gcgacccttc agagcttccc aagtggaact atgatggttc  240

cagcacaggt caagctcctg gtgaagacag tgaagtgatt ctatacccac aagccattgt  300

cagggatcca ttcagaaggg gtaacaatat cttggttatc tgtgatgcct acactcctgc  360

tggagaacct attcccacta caagaggca cgctgctgcc aaggttatca gccatcctga  420

tgttgttgct gaagtgccat ggtacggtat tgaacaagaa tacaccttgt tgcagaaaga  480

tatccaatgg cctcttgggt ggcctgttgg tggtttccct ggacctcang gtccatacta  540

ct                                                                  542
```

<210>   4215
<211>   571
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062e10a1

<400>   4215

```
cacaattccc tctaatactc ctcttacttc ttctacattc taacatgcct acatcgtgtc   60

tgctactgaa tggaaactaa gttgtgaaat catgggcata ttcagatgtg ggaccttgtt  120

tttccatgtg ctccttttgt ttagaacctg tctggccaaa gatcaacatg ttagtcagat  180

atatcctggc ttcagtgcat ctcagccaga ttggagcgac cataatggtt ttttcttgct  240

atccaacagc tcagctttcg cttttggatt cttcactact cttgatgttt catcgtttgt  300

tttagttgtc atgcacttaa gcagctacaa agtggtttgg actgccaaca gaggcttact  360

cgttgggact tctgataaat ttgtgcttga ccatgatggg aatgcatatt tggaaggtgg  420

gaatggtgta gtttgggcaa caaatacaag aggacaaaaa ataagatcca tggaattgct  480

taactcaggg atattggtgt tgcttgtgga aaatgggaca actattttgc aaagttttag  540

ccatcccact gatactcttt tgcccgacaa g                                  571
```

<210>   4216
<211>   144
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062e11a1

<400>   4216

ggattatggt cgctaccggg aatactatga gcaggacgtt gggtctagag actcagaact   60

tagggtcaga gctgagggct tgaggattac gcacaacaca gtagatgatg atccgtgcca   120

gagaacgatg gatgaggaat atcc   144

<210>   4217
<211>   416
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062f01a1

<400>   4217

tgagagtagc actgagcatc gtctagctat ctcgatcgaa ctgtccaagg tcctgtcacc   60

gggagggcat aaagccggtc tggtccggtt cctggttatg taattaaatt ccggtgatcg   120

ttatgttgtg attgtttatc tcttagcact aatcgttcta accattgtag ttatccaggt   180

ttgtacaaaa ttagtggtca tgtctgtaat cacaataatt gtgttggtcc gagtgatgat   240

tacaatagtt ttgttatatg tggtggtaac acttgctgta aaggaaagaa tcttgcaacg   300

gttagcatga tgttggcaac ggtaccaaat atgttcacaa acccaagtca ttcaaggatc   360

ccgccgccac tacaccgatg gtcagcgtca ccggggggttc atcaatcagc agtagt   416

<210>   4218
<211>   489
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062f01d1

<400>   4218

ctacattccg ttccaaggaa ggtttcccgt catcactgta tgacgtcctc cttctttggg   60

ggggggggg gggtagaaaa cgataatata cgatatcgaa gatagggcag gggcgagtac   120

1759

caacgtaaag agggaccaaa gataagaaag agggagacaa cgggtatggg ggcaacaaga 180

agggattaca aagaaaagga ggggaggggtg ccgaaaaggt ggggtaaggg aacaataagt 240

agttatgaaa aggcggtagc ggcaatcaaa ggaagtaagg agtgcatgaa ggcggtggta 300

atggaaaaga tggggatgaa caatatggcg aggggggggtt gaaataggag acgcaagagc 360

gtgatagaga gattagaggg atccccgaga cgcgcaaaca agtacgaaca ggtgataacg 420

ggcgccggag tgttagtact catgtgctgg cgcacccaac cgttgtaggc gcataagcct 480

gcaggtagg 489

<210> 4219
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062f02a1

<400> 4219

cttctgcttc gccctcctct gcttcgcgtc atgtcctttc gcttcatcac ctccttttcc 60

ttccactcgc gcctttcttc attcccttct tctactctct ccaaaaccag gacgagtttt 120

cctctgagaa aattttgggc tccctgttcg gttccaaatg cggtcactcc aagggcgttt 180

atgtcttcta tctcgaccac cgaagctttt cacaatagtg aaagtcccac agcttatagt 240

tctgatcaaa ttcaggtgct tgaaggcttg gaccctgtga ggaaaaggcc cgggatgtat 300

attggaagca ccggcccacg agggttgcac catttggtgt atgaaatttt ggataatgct 360

gctgatgaag ctcaagctgg gtttgcttgc aagattgatg tatgtttact tgcggatgat 420

tctgtgagca tcacagacaa tggtcgcggg attcctactg actagcatcc agttacaaat 480

aaatctgcct tggagacagt gttgac 506

<210> 4220
<211> 523
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062f02d1

<400> 4220

gatcacagta cactttaacc ttgcatttta atggtaacct gtgaagggta acatctgaag 60

```
tacttgaata tgattacacg tgcagttaca aaatttggga ccatacatag gtgggggcaa    120

aaaaacatat gcacttgaca aattttttaa aataaaatta gaacctccaa catgcctccc    180

aaatatttcc catcaactaa aagtgcaact ccattttgtg ctagtaaacc cttcctctaa    240

atcatcaaat ggcaccaatg aaaaaacagg agccttgctt tcattcaaga cctctccaca    300

ttccccagca tatagaaatt tttttgtgct tgactgtatt gtagtgtatg gttaatatgg    360

aaggcattcc acttgtccac atctagctgc accatcaaat atctagctga tcaagatcaa    420

tcatgcttgc agagtttcgt ataagttcct tccgaaaatc cacccgagta cccataagag    480

aggaaaaaac aatatttgct tctgctgcat cctcaacttt taa                      523
```

<210>   4221
<211>   499
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220062f03a1

<400>   4221

```
ggcgatcatt tctagagaag aagggcctta cgaaggagga gattgatgaa gcctttcagc     60

gtgttccaga ttcagctcca actgtgcaga caggtggtgt aaatcaagat gggcaattga    120

aatcatcatc aaacattcag caacaagccc aacaacaaac tttgcagccg ggtttacctg    180

cttctactgg tgttaatact tcatcgggaa ccttatcacg ctccagattt cactggtccc    240

atgcccttat tgcagttgga ttactggctg cttcaggtgc tggaacagct ataataatta    300

agaattctgt tctccctcgg ttaaaatctt ggatacgtaa ggttgtctta gacagtgatg    360

atgaacaatt aaagaaaact gacaacaaac caacaccgat ggaagaagct gtgcaagctg    420

caaaatcagc tgcagctgca gctgcagatg tggcaaaagc gagccaagaa atgctggctt    480

caaaaggcga agagaggag                                                 499
```

<210>   4222
<211>   516
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220062f03d1

<400>   4222
```

```
acattagtaa acaaatttat tgcatagaaa gatacgtgcg tttgcatatt gtattgatgt   60

ccagttcaaa gtacaactaa tatgattatg aaacagattg tgtgacaagc ttattccaaa  120

tcatgttttt catgatagat catgcatgat tcaccttcat ttctcatcat atttgacttc  180

atgctcctct tgtatctcac tagaagtggg aaccgagctg acactgcttc cctcaactgc  240

accttcagat tccaatagtt ttgggtccat atgtacatca tcggaaccgt ctaaagaatg  300

agctactgac tgattatcag acatctgttc cttttgggcc gctggctttg gccgcctgat  360

tgcttctgca gcctccggca tagctatggn gggaggttga ggaggaaccc atacgcgttg  420

aactggctgt tggattggct gctgactgga tgcagcacca ttgggtactc cattagactc  480

attttcatta tcaatctctc taattctgac attttt                            516
```

```
<210>      4223
<211>      557
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220062f04a1

<400>      4223
```

```
ggcaacagaa acaaaagtgg cagtattagg tggcatcacc gaagtgcagg gagctgccaa   60

cagcgtcgag atcaacaatc tcgctcgctt tgctgtagag gaacaaaaca aaagagagaa  120

ttcagttctg gagtttgtga gggtgattag tgcaaagcag caagtggttg ctggagtgaa  180

ttactacata acattggaag caaagatgg tgagattaaa aatgagtata aagcgaaggt  240

ttgggagagg gaatcccaag agttgctaga attcaagcca acattaggtg caggaggcat  300

catcgatgtg cctggagctg ccaacagcat cgagatcgac catctcgctc gctttgctgt  360

agaggaacaa aacaaaagag agaattcggt tctggagttg gtgagggtga ttagtgcaaa  420

gaaacaagtg gttgctggaa tgaattacta cataacattg gaagcaaaga tggtgtgatt  480

aaaaggagta tgaagcgaag atttgggtga ggtgatggtt gaactccaaa gagtgctaga  540

attcagccag tcaatgt                                                 557
```

```
<210>      4224
<211>      594
<212>      DNA
<213>      Glycine max
```

<223>   Clone ID: jC-gmfl02220062f05a1

<400>   4224

ccggtgtgct gctagagaat ctggtgaagg atgtcaattg ttccaatcaa ccaaggtcac   60

tcccaggact cttgggatca attcatcgat tttcctctcc ctccttccat ctccagcttc   120

ttccccggct tcgaattcgg attcggctca tcggtggtta acacacgtgt ggactggagg   180

gagactccca gagcccacgt gtggaaggtc gagcttcctg gcttcacaaa cgaggacgtg   240

ctggttgagc tacaagacca gagggtgctc caggtcagcg tggagagtgg taacttcctg   300

acgaggttta agatccccga caacggtaac ctcgaacaac tcaaaaccaa catgcgtcac   360

gggattctcc ttgtcactgt tcccagtttc atcaacccac ttctaatagg aatgtcaggg   420

tcgttgagat tgaaggcacc′gactgaaccc agttagcata ctctgtctct tccaagttgt   480

tcactctaaa ccaaacaaaa gacgctgtcg tgtctatgta tgtgtccgat ggaactgtgt   540

tctagtatta tattatggta tgtgtgccat ggaactgtgg tctagcatta tata   594

<210>   4225
<211>   550
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062f06a1

<400>   4225

attcgccgag cagttccttt ggcacttggt ctactctgta tatcaaatcc aaaggtcaat   60

gttatggata ccttaagcag acttagccat gatactgatt cagaagtagc tatggcagct   120

gttatctcct tgggtctgat aggtgctgga acgaacaatg ctcgaattgc tggcatgctt   180

cgcaatcttt caagttatta ctacaaggat accagccttc tattctgagt gcggattgcc   240

caaggtcttg tacatttggg aaagggctta ttaacactta atccatatca ttctgatcgc   300

ttcttactgt caccgacagc acttgctgga ttaattacca tgttgcacgc atgcctagac   360

atgatagcta ttgtgttggg aaaatatcac tatgttctct acttcctcgt tttggcaatg   420

cagccaaaga tgttgttgac tgtggatgag aacttgaagc ctctatcagt gcctgttcgt   480

gtaggacaag ccgtagatgt tgttggacaa gcaggtcggt cgaaaacaat cactggcttt   540

cagacccact   550

1763

<210> 4226
<211> 543
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062f07a1

<400> 4226

ttcgtgatta ttattatttg gatcatgctc ttcgcttcaa ttttcctttt caaatccccc   60

tgaatttttt ttctttctga atcacatcag attcaattga attataccccc ctcaatgcaa   120

tggtggtctg caaatgtcgc aaggctacta agttatattg cttcgtgcac aaagttcctg   180

tctgtgggga atgtatctgc tttccggagc accaaatctg cgtggtccgg acttattccg   240

aatgggttat agatggggag tatgattggc ctccgaaatg ctgccaatgc cagtctgttt   300

tagaagaggg ggatggatct caaacaactc gactgggttg attgcatgtt atccacacaa   360

attgcttgga ctcgcatatc aagagttntc ctccacatac tgccccagca ggatatgtgt   420

gtccttcatg ttctactacg atatggcctc ctaaaagtgt gaaagattca ggatcacgta   480

ttcattccaa gttgaaggaa gctatcatgc aatctttat ggagaagaat gtttctggaa   540

tca   543

<210> 4227
<211> 604
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062f09a1

<400> 4227

gtagtgtgtg gttgaaagtt aagaagtagc aaagatgttt ccattcgggc acaagggtca   60

aaagataaag gggactatgg tggttatgca gaagaatgtg ttggatatca acagcatcac   120

cagtgttgac gggatcgtcg gcaccggctt agacttctta ggcagtgcac tcgatacagt   180

tactttttta gcctcctcca tctccatcca acttattagt gctaccaagg ctgatggtgg   240

gaaaggaaaa gttggaaagg ctacaaattt gagaggaaag ataacattac caaccatagg   300

agctaaggaa gaagcatacg atgctcaatt tgattgggac agtgacttcg gaattcccgg   360

tgcattttat attaagaact tcatgcaaaa cgagttctac ctcaagtctt taattctcga   420

agacattcca aaccatggaa ccattcactt catatgtaac tcctgggttt acaattcana   480

acactacaag actgatcgca ttttctttgc caacaataca tatctttcaa gcgagacacc   540

ggctccactt gtcaagtaca gagaagaaga attgaagaat gtaagagggg atggaactgg   600

tgag   604

<210>   4228
<211>   565
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062f10a1

<400>   4228

gtgacgtgtg cacttgaact gttctttctt ctgtttctat ggcttccaaa gttagttagc   60

aacacgcatt tcgatgacgg tggtcggact cttcctcact gccacgaagc tcgccggagc   120

tctattcact ctcaccgtcg ccgccaacgc cttctcctac tcccgctttc gcaagaagaa   180

ccttcgcggt ttccgctctc ccatcgatga atcccaagac actctcgcac actttaacgt   240

cgctgaaggg gaagatgggt ttttctttgg tttggcgaca gcgccagcac atgttgagga   300

caggcttgat gatgcttgga tccagtttgc tgagaaaaag agtggtgaag gtggtggtga   360

ctctgagggg aagcagagag tggatgctgt gattggttct gcttctggcg atggtggttc   420

ccagccggcc ataacatctn cgaggagcag gaagcctctc aaggtggcga tggaggccat   480

gatcagggga attgagaagt atatggaagt ggaagggaaa gaaagagaag aagaagcccg   540

tcctaatgta actgcttggc ataat   565

<210>   4229
<211>   584
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062f11a1

<400>   4229

gtggtgtgga atatgaacat gaacacccac atctatccgg aattcgttgt tagcttcaaa   60

1765

```
gtctcatctg atgctgaagg tcatttttgt ggaagtgagg gtaagaatgt ttctggggtt      120

aattcagcct gtcagggtcc tcatggcttg ttacattcag aatcttctac agtagataat      180

ggaaaagctc ctagtatggt tgctagcacc ccaaaagttc caaatcccc  ttggatgcct      240

tttcctttgc ttcttgatgc tatcagaaat caggttcctc ccaagggtat ggatgtaatc      300

aaaatatatt atgaacaatt caggtcaaag catatatcgc gggatgattt tgtgaagatg      360

ctgaggttaa tagttggaga tggtctgttg agaactacaa taacaaatct tcagttcaag      420

ataccttccg gtggtgaatt gaaaggctca atcaagaaag aagtctgagg ctgtatttct      480

gtgaggtgga gatctttctc cttggagtca attaatgtca acttttgct  ggataaatca      540

aaatgaagtt gtgatattgg tatctcttta ggcaactatc tttt                      584
```

<210>   4230
<211>   591
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062f12a1

<400>   4230

```
gataattagc catacaaaga tgaatctcaa tagcacagaa gcacttcttg tgcttttttgc      60

atttgtcttc ttggcatggg gcaatgcaca aaataccctt gtgccagcaa tcataacatt      120

tggtgactcg gctgtggatg ttgggaacaa tgattatctg cctacccttt tcaaggctaa      180

ctaccctcct tatggaaggg actttatcaa ccatcaaccc actgggaggt tctgcaatgg      240

gaaactagct actgatatta ctgctgaaac actgggtttt aagagttatg cacctgcgta      300

ccttagccct caggcatcag ggaagaatct tcttattgga gcaaactttg cttcagctgc      360

ctctggttat gatgaaaagg ctgctattct gaatcatgcg attccattgt cccaacagtt      420

aaaatattac aaggaatacc gaggcaagct ggccaaggta gttggcagta aaaaagcagc      480

attgattatt aagaatgcac tctacatatt gagtgctggc agcagtgact ttgtgctaaa      540

ctattacgtt catcctttga tcaacaaagc ctttactcct gatcagtact c              591
```

<210>   4231
<211>   453
<212>   DNA
<213>   Glycine max
```

<400>      4231

taggtctgca ctgagcatcg tctagctatc tcgatcgaac tgtccaaggt cctgtcaccc      60

ccatgggtaa aacaacaacg acaacaagat aaaaacgttg ggtgctttgg gttggagggg     120

gtgtgtgtgt cgaagcctca cggtggtaac aataaaagtg acgccattan cgtgctcggt     180

ggtggtgtgt gtataggtga atactggtgc ggtcgaggta atagtaaatc tattggggta     240

tgtattggtc gtacgtggtg gtaatgtcta tcgcatggtt tctgttatgg ttttcatatc     300

gcgccaattg aggttgcgtt tcgttcttgt ttgcataggt ccgttccggt ctttgcgatt     360

gcgttagtgt tttcaatctc agttatcgta gtntcaccaa ctattactag tattcttatc     420

ggatcgtgta caacaaaatc gcgtagcgcg gtg                                   453


<210>      4232
<211>      446
<212>      DNA
<213>      Glycine max

<400>      4232

tcgattccgt tccaggaagg tttcccgtca tcactgtatg acgtcctcct tctttggggg      60

gggggggggg gcgttaaaaa aagcgtgttg gttagactaa agcggagcga taagaattaa     120

ggtgttacgt tacacgttac ttgtggaaag tgatcttaat aaaagtggtt aaaggtggcc     180

tcattaagtc acacaagttc gtattcctct ccacaactca acgggttcct caggtaaaat     240

tgcgaacaca cacaccccga aataaagaag aataaggtag acagtgtagg tggtggtggt     300

agtggggcat agcaggcaaa catcatgtcc gtgtccggtc aatgtccagt ggtgttagcg     360

gcacgtcatc aaccatcaag tagcgtancg cccatgtcgg gtatttatgt cttggtcatc     420

ttattcaggt gtatactcac ggtggt                                          446


<210>      4233
<211>      535
<212>      DNA
<213>      Glycine max

<223>     Clone ID: jC-gmfl02220062g02a1

<400>     4233

cactggttgt caatgcaggg ttcccgatta taaaagggaa atttcaacta tccccagaaa    60

tgccaattat ggacacagct gacattccat ggtgcagctt aggtgaccca accatgcaca   120

aggttatata taatcatgcg tcaaagatta tacgatattc acatttaaca gattggtggc   180

ttggaaacac cacaagtgac cttgaacctg gtgctatatc tttgtctcca aagatcctac   240

caattggtcc actcataggg agtggtaatg acattagatc attggggcaa ttctgggaag   300

aagacgtctc ttgcttgacc tggcttgatc aacaaccacc ttgttctgtc atatacgttg   360

cctttggtag ctctactatt tttgaccctc atcaactcaa ggaactagct cttggacttg   420

acctcacaaa caggcctttt ctgtgggttg ttcgtgagga tgccagtgga agcaccaaaa   480

tcacataccc agatgaattc caaggcactt gtggtaaaat tggtaaatgg gcacc         535


<210>     4234
<211>     508
<212>     DNA
<213>     Glycine max

<223>     unsure at all n locations
<223>     Clone ID: jC-gmfl02220062g02d1

<400>     4234

aacatgaatt ctaatttatt gcctatatca ggtagctaaa tttaaatgtt caatattttt    60

caggaacatc ataaacattg ttcacaacat cagagcatca acaaatacat ttttattcct   120

tgagccactc cacaaacttg ttaaaattct cataggattg tccccttct gcaatgttac    180

ttagaaccat ttccttcagt ttttgagacc ttccccttat gttctcatct ccaaggattt   240

ggtctacttt cttctttatc tcccaacgtg atatcagccc tttgtcatcc aaatcgaatc   300

ccaaacccac cttccacata tcacaaatgt aagccttgtc aactaattgg tcagtataat   360

atggccaaca caagaaaggt accccattgg acacaccttc caaggtagaa ttccaaccac   420

agtgactaat aaaacaaggt attgcagggt ggcttaacac cttttgttga ggtgcccatt   480

taacaattnt accacatgtg ccttggaa                                       508


<210>     4235
<211>     509

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062g03a1

<400> 4235

```
acttgggagg ttaaagagac ggcaacgttg tgctgtccgc cttgaccgag ccagagcttc    60

gtcttggccc tcgattttgc cctgtaaaac taatcccagt cacaacagaa ataatcaatg   120

gcaccgaaac agaccaaggc tgagaagaag atcgcttacg atgcgaagct gtgcgaccta   180

atggaggagt acggccaaat cctcgttgta aactccgaca acgtgggatc gaaccagctc   240

cagaacattc gcaagggtct ccgcggcgac tctgttgtcc tcatggggaa gaacaccatg   300

atgaagcgct ctgtcaggat gcacgctgag aaaaccggaa acaatgccta tctcaacctt   360

atccccctcc ttgtcggcaa tgtgggattg attttcacca agggtgacct gaaggaggtc   420

agtgaggatg ttgctaagta caaggttgga gctcctgctc gtgttggttt ggatgctcca   480

agtgatgtcg ttgctcctcc tggcacaca                                      509
```

<210> 4236
<211> 524
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062g03d1

<400> 4236

```
aattaactat gggatttaaa aactagttgc aatgtaacat gaattgaaaa gacagcaaac    60

taaaatagca cctaaaatga aagacaaaca acttcatcaa ttctaacaaa gcaaactcaa   120

caaaagtatt acttaattta gtcaaacaga ctgaaaccca tgtcatcgtc agactcttca   180

gctggttctt ccttcttttc ctcctccttg gctgcagccg ctggagcacc agatgcagca   240

gcaggagcag caacggcggc aacggcaaat ttacttgggt ccttcagata ctccttgacc   300

ttgtctgcct ccgggaaaga ataatctgtc tcaaccgcaa cagcaagaac attcttgtag   360

gcattgacaa acatgtgtgg tgctgcagca agtgttggat atgaaatagc caatgaaagt   420

gaagtaacca ttgagacacc agcagcaaac ttccaatgag gtcatcctca gntagatcaa   480

gaacctcagg gctgaacact gaaccattat cataaacaga gaga                    524
```

<210> 4237
<211> 627
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062g04a1

<400> 4237

```
aaagacggaa aatataacag aacttgactt gagcgaatgt cccataacaa aactcccacc   60

ttcatttcga aatcttactc ggcttcaaga gttggagttg gatcatggac ccgaaagtgc  120

tgatcagtta atggactttg atgctgccac cctcatttcg aacatctgca tgatgccaga  180

actatatgat attagtgctc gccgtttgca atggaggcta ttgccagacg atgctttgaa  240

attgacctca gtcgtgtgtt caagcgttca ttctctcact ttggaactgt cagatgagct  300

tcttccgcta tttctctcat ggtttgtaaa tgtggagaat ttacggctag aagggagtaa  360

atgcacagtc attcccgaat gcatcaaaga atgccgcttt ttatctatcc ttattttgag  420

tggttgcgat cgtcttcaag aaattagagg gattccttca aacttggaaa gattcgccgc  480

aacagaatcc ccagactttg acttctcaag cataagcatg ttgctgaatc atgaactgca  540

tgaggctgga cacactgact ttagtttgcc aatattaaag attccagaat gggttgagtg  600

ccagagtccg ggaccatcaa ttttttc                                     627
```

<210> 4238
<211> 574
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220062g05a1

<400> 4238

```
aaaaattggt tgagtggctg gttgcagcat tattgttcat tgccttgttg agtggtagtg   60

cacatgctgt tgcaatatgt aacattgact caagtcaact gaacttgtgt cgtgctgcag  120

ttactggtca aaaccctcca ccacctgatg agaaatgctg tgcagttatt cgccaggcca  180

atttgcgttg cctctgcagt tacaagtcta tcctaccttc atttggaatt aaccccaaaa  240

atgctttggc cttgcctgct aaatgtggtc tacaattgcc tcctaattgt tgagtgctgt  300

gaagcagtta acgaaggtca agttcattac aagcacctta attagtagtc ttcaattgct  360
```

```
ttcaggtgtt ttactaacac tgaagataaa ttttaagaca ggatttgatg cccctcaaat   420

aacggtgcag ttggtttaa tcagtgtctt gtgtccaaaa gtttgtgagt agatgtgtag   480

agtattagtg tttgatgtac aggaatactt ntgatctgaa ctttnttcc ttcatgtcta   540

tgtctacatt ataatatgtt taataaagtt tctg                               574
```

<210>   4239
<211>   54
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062g06a1

<400>   4239

```
attgttgtgt gcatattttg atatagtttg atacctccct atatctaagt agct           54
```

<210>   4240
<211>   571
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062g07a1

<400>   4240

```
caccaaatga aaaatattgg gttgttttt cttgtggtgg tggctacttt tgtggtggca     60

gccacagctg gtagctttta ccaagacttt gaaataacgt ggggtggtga gcgtgccaaa   120

atctatgaga atggaaacct tctcacactc tcccttgaca gagcctctgg ctctggcttt   180

cgttccaaaa aagagtactt gttcggaaaa attgacatgc agctcaagct tgtgcctggt   240

aactctgctg aacagtaac tgcctattat ttatcttctc tggggcctac tcatgacgaa    300

atagactttg agtttttggg taacttgagt ggtgatcctt acactctcca cacgaacgta   360

ttcagccaag ggaaagggaa cagagaacaa cagttccatc tatggttcga ccccaccaag   420

gacttccaca catactccgt ccaatggaat cctgcaagca tcatattctc tgtggacggg   480

accccaatag ggagttcaag aatttggaga caaaaggggt tccattccca aagagccaac   540

ccatgagaat atactctagt ctttggaacg c                                  571
```

<210>   4241
<211>   331
```
```

<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220062g08a1

<400>   4241

gacttagtgg tggcagtgaa gcaccaccgt cacatgggag gaggtacagg tggagttaat   60

ctctcatttg gaagcaacta cccgtactta aagatgtcgg agtgcactga gcgggcgaag   120

acatgtcatc acacatcact gagatcgcta catatgcata gagcgattgg atgtgacgag   180

agaatcaagt tctattgcta gagacgtccc aatgagatgc tagtcgggcg tgatacgcaa   240

aacatatcac tatcaataac cggctattgt aacacatgtc tgaggcctac ggatgaccaa   300

atgacaccat tgctcactca gggctaggat g   331

<210>   4242
<211>   608
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220062g09a1

<400>   4242

ggaggatggg tttagaggag agtttaatgc ctttgttggg aacatacctc accaagtgtt   60

gctgctttcg agtctgaggg ttttgtgggc gccaagggcc aaccttggtg gacggttgcc   120

tagtggctgg tcggatttgt gctctctgag ggtgctcaat ttggcgcaga attatgttgc   180

cggtgttgtt ccagagagtt tggggatgtg taggaattta agtttcttgg acttgagttc   240

taacattttg gtggggtatc tgccttcatt gcagcttcgg gttccttgta tgatgtactt   300

caatatcagc aggaataata tatctggcac tcttcaaggg tttaggaatg aaagctgtgg   360

tgcaagtgca ctggatgctt cattcctaga gttgaatggt tttaatgtct ggaggtttca   420

aaagaatgct ctcattggat ctggttttga agagaccaac actgttgttg ttagccatga   480

tttcagttgg aacagtttca gtggatcctt acctttgttt tctcttggag ataatctgcc   540

tggtgcatat cgtaatgtct cctacactct gtctctcaat aataacaagt tcaatggaac   600

tctactga   608

<210>   4243
<211>   556

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062g10a1

<400> 4243

```
caattctcag atttgtgacc tgctctcaga aaaaaaaaaa atcaaaaaac aaaactctaa    60

gtgggtcggt ttttctgctt aaaatttctg ttttggtctg aaatttcttt gcttttggtc   120

gtgccagtgc tctatgagat agaatctgcg cgagaaagcg acaccaatcc ttgcaataga   180

gatggtgggt accagaaata ttgtgtagtt actgctatct attactttg ttgctccaat    240

tgagctctac actgatcgtt ttggcacctt caagtacccc tttgctgagc aagagtttat   300

tgatgctgta actgcttttg cgagtgcagc tgactctggc catctgaatc tcctgccgca   360

ggatacttct acggtcttta aggaaccaat tgggcttgaa tatacggagg acgctgcaga   420

cacaaagaat ttgcttcatg gcttgcactt tgccaaacca ggggagcatg tatctgccag   480

ggtattgtca gctacgaagg acgaaggtca aaccaaaggg gagaacccca tcaaactggt   540

gacagatgga tttaat                                                   556
```

<210> 4244
<211> 568
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220062g11a1

<400> 4244

```
gcgaagagaa tggctcccaa gggtttaatc ttttggctg tgttatgctt ctcagcactg    60

tcactgagtc gttgtcttgc ggaggataat ggacttgtta tgaacttcta caaggaatca   120

tgccctcagg ctgaagacat catcaaagaa caagtcaagc ttctctacaa gcgccacaag   180

aacactgctt tctcctggct cagaaacatc ttccatgact gtgctgttca gagttgtgat   240

gcttcactgt tgctggactc cacaagaagg agcttgtctg agaaggaaac agatagaagc   300

tatgggttga gaaatttcag gtacattgag accatcaaag aagctttgga aagggaatgc   360

ccaggagttg tttcctgtgc tgatatcctc gttctctctg ccagagatgg cattgtttcg   420

ctaggaggtc cccatatccc tcttaaaaca ggaagaaggg atggtagaag gagcagagcc   480

gatgtggtag agcagttcct cccagaccac aatgaatcca tttctgcagt tcttgacaag   540
```

tttggtgccc tggaattgac acccccgg   568

```
<210>        4245
<211>        624
<212>        DNA
<213>        Glycine max

<223>        Clone ID: jC-gmfl02220062g12a1

<400>        4245

aacgaccctg caaaaccacc tgcaaaggca caagtggtgg gttggccacc agttaggtca     60

tttagaaaga acatagttca aaggaacaag aatgaagagg aagcagcttt cgtgaaggtg    120

agcatggatg gtgcaccgta tctacgaaag gtggacataa agttgtacaa gagctaccag    180

gagctgtcag atgcgctggc taagatgttc agttccttca cgattgaaaa atgtgggtcc    240

caagggatga aggactttat gaatgagacc aaattgatag accttttgaa cggctctgat    300

tatgtaccca cttatcaaga caaggacgga gactggatgc tcgtcggtga cgtgccctgg    360

gaaatgttcg ttgaatcatg ccagcgcctt cgcataatga aaggttctga ggctatcggc    420

cttgcaccaa gagccgtgga aaagtgcaag aacagaagct gaagtgattt tagggttcgg    480

ccacaacaat cggcttggtt gttcatctgt gtcacaagga agcaaatgta ctcgagcaag    540

atcgagtctc ttttaggaat aagagtttaa ttttaataat aatattatgc gtctttgaaa    600

tttcttatat gtgattatac gaat                                          624


<210>        4246
<211>        525
<212>        DNA
<213>        Glycine max

<223>        Clone ID: jC-gmfl02220062h01a1

<400>        4246

aggttgcact gagcatcgtc tagctatctc gatcgaactg tccaaggtcc tgtcaccgct     60

atgcaagaga agcacatgag gaacgataag ccgagttttg aagtaagggt agggagggag    120

ggagcggggg ggcgaggcgt ggtgcggtgt gtggggagtg atgaggcaa ccggttgccg    180

cgtaagccgt agtaaaccag ggcagagccg agtaaacggg cgtaatatgt gcaccatggg    240

aaaatagcga gcgcgatttg aagggaaaga gcggggtgcg caaacagaaa caatatgttg    300
```

tagataggat ggggtgtaag ggcgaggaac aagagattgt gcgagacggg atgatgagaa   360

gggacaaggt tgatgcggag caagcgggga acgcgaccac ggagccatat ggaaagaggg   420

agccggaagg ggcgtagtca gggtaaagta agaccgacaa ggaggagtaa ggcgtactga   480

taaagggtgg cgaggggga caaatagtag gcaaagggca gcggg   525

<210>   4247
<211>   483
<212>   . DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062h01d1

<400>   4247

tcgattcggt tccaggaagg tttcccgtca tcactgtatg acgtcctcct tctttggggg   60

ggggggggg gggccaaacc aaccaacaaa agaggcaaag gaaacgggta taggagaaac   120

cgcatctaac ggttacagac ccaaaggaaa cggggtataa gaagtggtaa cgccggaata   180

ataggggcaga ccataagcga aataggtgag gaaagacagg gatagccatt gggtacagct   240

taaagtaaca agtggatcca acaaggcagc accagataat ccgccgcgtg tgatgacgct   300

tgcagcaagt acaatacgcc aaccgcgtag gttacctata cgagggattg tgagaagtaa   360

aattgtgtta tgcgtaatag ggataaacgt agtaacgtcg caaaagttgg ttaaggcaac   420

acgcgggcta agtacggtaa gacgtgcggg atagtgtgga aactaggtgt atgtagaagg   480

cat   483

<210>   4248
<211>   265
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062h02a1

<400>   4248

gcagattctg ccatgaatgg tgcatagata taggagcctc tgctgtataa attggatcca   60

ctgcaaagat tgctgctgat ggaaaagctg caaccaacct tcaatttgaa ggatttgttg   120

tctgaaacat tcacctgtta attcaaatta gtacgcccca atttgtacct agtgaaattg   180

aaactgggtt gtgcatttca acattttgca gctcagattc catgtcatgg ttaaattatc   240

```
tatacaccat cagcatgtgc catag                                    265
```

```
<210>      4249
<211>      264
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220062h02d1

<400>      4249

ctatggcaca tgctgatggt gtatagataa tttaaccatg acatggaatc tgagctgcaa   60

aatgttgaaa tgcacaaccc agtttcaatt tcactagtac aaattggggc gtactaattt  120

gaattaacag gtgaatgttt cagacaacaa atccttcaaa ttgaaggttg gttgcagctt  180

ttccatcagc agcaatcttt gcaggggatc caatttatac agcagaggct cctatatcta  240

tgcaccattc atggcagaat ctgc                                        264
```

```
<210>      4250
<211>      520
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220062h03a1

<400>      4250

gggatggcgg gcatgtctgg atgtagttgc cgttggcagt gggcggaggc gaaatccatg   60

ggagtgggct gttggttccc ttcctcaact accaaaagga gtttccggcc tgtgattgtt  120

tctgtttctg ctatctccga taataactct cactcttaca ctagcagcgg aagaaagcta  180

gaagaagaag gcatcaaagg gtcaggaact accgtcagag atcgcaggtt gcttagaatt  240

cgccaagaga aacgacagcg ggaatacgac ctccttaaca actaccctgc ttgggcaaaa  300

gtcctggaaa acgcttgcaa agacgatgct gaactccgtg ccgttctcgg agatagcatt  360

ggcaaccccg aactcatgag gaaacgagtc gaagataggg tgagaaagaa gggtagagac  420

tttcaaaagt ctaaaacagg atccgtcctt gctatcaagt caccttcaga gacttcaatc  480

cacttgattc atatatctgg tttgaattgt tggatcacca                        520
```

```
<210>      4251
<211>      513
```
```

<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062h03d1

<400>   4251

ataaataggg aactgcaaag ccatttattt atttttgaaa tacttgtaca aatctttgta   60

acaccacgca cgtcgcaata caagttaatg aagaatatgc atgttttcaa ccacagtcaa   120

gtcctttata ttcttgccat ttacttttga tttcgattta taggtttctg ttctatttat   180

gcaattttta ttccttccta catttttttt ctccaagtga caacaatacg aaataaaagg   240

aatggccatc gcccaaaaag tttacctttt cgtatgcaca aatgcactat acaacccttt   300

ttgaacaaaa tggaaagtac aatgcatagc tgcaacaagt cccagtttaa atcttgaagt   360

atttgtaacc atactcaggg cttgtcatcc cctcttccca atcacccatg cggcgaccac   420

caaaaacaat ttgttggatt ccatgatatt ccgagctcag gacagttagg cagttgagga   480

gcacatcaat tgcaaaataa tcagatgtac cca   513

<210>   4252
<211>   536
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062h04a1

<400>   4252

ctccaaagaa agaacacatc acaatggagt acggaaggtt aggaccctct gatcctggtg   60

gctcctcgcg cctcaaccct ccgagatctt ccgggaggaa aaacattgtg tttctgtcac   120

tctttgctgt cttattaata gccgcgtccg ctgttactgc agttgccgtc cgctctcgca   180

ccaaaaatac cggaggggac ggaactagtc tcggcaagtt cacacaggcc atttcacgca   240

cgtgcagcaa gacacgcttt aagatgttgt gcatgaaatc attactggac ttcccgggat   300

ctcaaggagc atccgagaag gacctcgtcc acatttcctt caacgtcacg ctgcagcact   360

tctccaaggc gctctactct tccgccacca tctcctacac cgccatggat ccccgcgtcc   420

gcgccgtcta ccacgactgc ctcgagctcc tcgacgactt cgtcgacgcg ctcgcccgct   480

ccctcaacac agtcttcgtc ggcgccgtct gctccgccaa cgacgacgtg ctgacg   536

<210>   4253
<211>   577
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062h05a1

<400>   4253

acagtcagac tgcatatatc gatatagcca ccaccactac ccagcctccc tctaatatct   60

gttttttcct tctgttgttg cttctagcac actttcattt gggcataagc caacttgagc   120

tgaattacta ctctaaaagc tgcccaaaag ctgaagagat catcaaggaa caagtcacac   180

aactatataa caagcatgga aacactgccg tttcgtgggt cagaaatctc ttacacgatt   240

gcgtggttaa ggtgccagat ttcttgtttc aaattcatat ataaaccaag atatatgcat   300

cataattagt taacaacaat gcatgaaaca gttaaaataa ttgatttgat gattctcatg   360

cagtcatgcg atgcatcatt actgttagcg acggtgagcg atgtagtgtc ggagcagaca   420

tcggatagaa gttttgggat gagaaacttc aagtacgtaa acactatnca agcagcggtt   480

gagaaagaat gccccttcac agtgtcatgc gctgacattg ttgctctttc tgccagagat   540

gccattgctt tggtgggagg accaagcatt gaaatga   577

<210>   4254
<211>   593
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062h06a1

<400>   4254

agttaatgag gaatattgca agcacctaag aggagtggta gacaaattgt tcaaaagtat   60

gtcggtaggg ttggggcttg aagagaatga gctaaaggag ggtgcaaatg aagatgacat   120

gcattatctt ttaaaaatca attattaccc accttgtcca tgtcctgatc tggtcttggg   180

tgtgccacca cacacagaca tgtcctacct cacaattctg gtgcctaacg aggtgcaggg   240

ccttcaagca tgtagggatg gccattggta cgatgttaag tatgtcccca atgccctcgt   300

tattcacatt ggcgaccaaa tggaggtaca tatcttgctt agatgctata gttatatttg   360

gataaattta aattgataaa agtatgaatt aaaatcagct ctcacattaa gagagtttct   420

1778

ataatttaac ttatgtataa attaatttaa atttatggga gaaatctatt tttggaaaaa   480

acatattttt ttagtttttg gttatcaaat gtaattaacg tctctgtatt tctatgttga   540

tgaacttgat ttataaactt ttggcccttt tctcttagat tcatgatgta ttt   593

<210>   4255
<211>   403
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062h07a1

<400>   4255

gccaagcttg tcttcagttt ctctttgtcg ctagtaacag aatattacaa agtaacggct   60

ttctgagtgg agcgcttgat ttcgtttggt gggtcaactt caagtttcga ttttgttcat   120

ttttctctcg tcgattgaga aggctcagtt gcagagacag tgggggtggg acggttatgg   180

ctttttgccc aattttttgt tgcggaaatg gttcggatcg caaaggacga gggaagaaac   240

aaccttcatg gcgggtgttt cctttgaagg aattacactc cgctactaat aatttcaact   300

atgataacat acttggcaaa gggggattcc gcagtgttta cttggggcca gctctgggat   360

gggatccaaa ttgcatctaa tagattgaag tttttagcaa cat   403

<210>   4256
<211>   506
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220062h08a1

<400>   4256

tcgtttttatt atcataatta ttgttcttgt tgttttttgaa tcattcccat ttcccagtct   60

ttctttatgg aagaagttcc cgacacggcg gcgaaccggt ccgatccggg gttcagggcg   120

gagatcgaca cttcggcgcc gttcgaatcg gtgagggaag ccgtcacgcg attcggcggc   180

gttgggtatt ggaaacccat tctgaacggt cttagtaaca agcattttgc tgctcctgag   240

ccgcatcacg cagaagagct tgaccctgaa aaactggagg agcaagctgc tgtattggag   300

aaagacctga tcctgaaaga aagggaaaca cttgatgtct aaaagagtt ggaaagtacc   360

aaaaggcttg tggagaattt gaaatcaaag gtacaaaaag aagaatctga agcatatttg   420

                                      1779

aattttcaga cgagtgtgtg cgaaaatata tcgtctgtta aggaggatga gagagaagat   480

aaggaaaacc gagtgagtaa tgttgt   506

<210>   4257
<211>   475 .
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062h09a1

<400>   4257

tattgaatga ttttcctata gatctagagc agtatgatag aagagaacag ctgaaaaaga   60

gtggtctggg aaaggtcatt atgtttttat caaagtctga tgaagaaatc agtgcaaata   120

ggaaactagc caaggagctg gttgataagt ggagccggcc tatatttaat aagagtaccc   180

ggtttgaaga catgagaaat gtggaggatg atagggttcc ttatcggagg ccatcagtta   240

aaaagccggc aaataaatct gcaggaatgg aatctaggga cagtgatctt gatttggaac   300

tttcacagcc taggtctgga cagtcctctt ctaggcagca tgcatcaagg ccggaagcaa   360

cacctttgga tnttgtggtc cgtcctcagt ctaaaattga tccagaagaa attagagcac   420

gagcaaaaca agctgcacaa gatcagcagc gtatgaagat gaataagaaa ttgca   475

<210>   4258
<211>   576
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062h10a1

<400>   4258

gcaaacagct gttagacttg aaagaggatc accaaaacat aaaggaagaa agttgcaaaa   60

cctttgaaga gaaaaattcc ttgatgaaaa gattttggga cctgggtgaa gagaaaagta   120

aattggaaga agaaatctgc attatgattc acgataccat agcacaatcc aatctttctc   180

tgctttacca gaacattgtc cttgaaaaac tccaggcact taaagagcta agcaaagatc   240

ttgatagact ttgttcagta aatactgacc ttgaggagaa actaaaaata atgatgggca   300

aattggaaga tgtacaaatg gaaaactcag atcttaaaga gtccttgata gtgtcaagca   360

1780

atgaactaaa attagttcaa tccgttaatg atcaattaaa ttgtcagatt aggaatggaa 420

aggaattgtt gtctcaaaag gaaaatgaga ttttggaagc agcanagatg tttagcactt 480

tacatgatga gaaaacagaa ttgcaaagat tggtggaaga tctgaagagc aagtatgatg 540

gagccagggt gatactttga gaccaagcta gtcaaa 576

<210>   4259
<211>   573
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220062h12a1

<400>   4259

ctcgtgagtt tagcagagtg cactcacctc acctagggtt ttgcatcagt tttcaaccac 60

tatagcagaa tggaacaaaa tgcgtgcgag gaattgtcga aaattgcttc ggatttcaag 120

tgcgagaaga aggttctcga aacagttgat gaatcaatcg tatgccccac tccacagaag 180

aacgaggaac ccttaatcgt taaattcaga gagggacaaa ccaaccttcc tgaaaaatac 240

tctgcacttg tagatttgtt tggtcacaca agctgttcac tcaggttgct gcgtctgtgt 300

aaaaagtctc caacttttca aaatgtttgc cgacaggttg aagttctttc gaagagggaa 360

ttctcccatg cccatcttgc gcagatgaag tatatactcc ctaaaagtgt gtgtatagat 420

aaggtgcttg ttcatgataa gaaaagcttg tgtatggtgc ctgatatgaa gatcacgttg 480

agatttgagg ttgtgaaaga ttgctctggc gaatctgatg atctggctct tcgacgatat 540

tttaaatcta agctgaatga tntctttgat atg 573

<210>   4260
<211>   480
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a01a1

<400>   4260

gaggtagcac tgagcatctt ctagctatct cgatcgaact gtccaaggtc ctgtcaccac 60

caatggtcaa cctactagta cctacaatgg ctgtcgtaca aaaagcaaca aatgctaaca 120

tcatggctgc cgccgccaaa gcacatacca cataattcgg ttgtggcacc atagtgctac 180

1781

aatgccgccg ttgataacga atagataagc gaagttggta ttttggttta caagagaagc 240

cagcaaaggt actagacgat gtaccaacca ggccaacgta cgggtgtggc attgagaaag 300

ccacgtagcc gattggggta gcgccatggg taggtcaatc ggggttactt cgtacgatat 360

taatctcaag cgtgagagta caaggagggg gaagcggttc cgcattttgg gtactttgta 420

gcaggtaaat gtaagcaacg gttaaccagt gagagagggc aaccaacgtg gtaggttctg 480

<210>   4261
<211>   476
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a01d1

<400>   4261

aagaaacaaa attaagaagt cattaaatga gtaaagcacg taaatttttt aaggccatac   60

attggatgca agaattgcta tcaagtggct gaactataat ataaaaagaa aaaccctacc   120

ttacaatcat gagactactc ctacaaacgc aaaagctgct accgcaggca acaacataca   180

tagagtaact gaactaaacc ataaaccagt taagaaaaag agcaaaaatc tatcttaact   240

tgggccgctt tgtcatgcta ctacttagac cggctcctct tgacttacca aagctttttg   300

cctttcttct tttcctatct tcttcactgt cagactcatt ccctttctcc cgatctgcat   360

tgcttgcttc cctctccagt tcttcccatg tctttccctt ctcttcctct gaatcctcct   420

cggaatcttt ctcgccatca tcctctgact caacaagtga ttcactatca gaagct   476

<210>   4262
<211>   531
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a02a1

<400>   4262

ccacagtctg ctgcgcgtga gtaagggcga gagggggtttt gggcgcaaac cgactcaagg   60

gactgaccat acgcgggagc ggggctcgcg ggctaatagg ctcgtatagc tggtacatgc   120

atctggacgt gacctcggac tatgtcctcg tatttaaacc gaccagcgac gagaacacac   180

tccaacacta accgtacgat gtccactgcg tcgcgcgcat caccttatac cgtctataca   240

tgtgactcga ctatgtccta gaaggcctca tcaagatggc agatctcact attaatctgg   300

ctgccatttg cactcccgcg gattacaaca cccgccctat cggcaccatt tacagcaatt   360

gcatcgacgc gctcccagtg gtgaaatact gttccgagaa caacaagcgc cttatccatt   420

tctctacttg cgaagtgtac ggaaagacga ttggagcctt tctccctaga gatagtcctc   480

ttcgcaagga accggcatac tatgttctta acgaagacga gtcttcttgc a   531

<210>   4263
<211>   500
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063a03a1

<400>   4263

caaacactcc acttccccaa aaagtaccaa ccaacctcca caaccacaac cacaacaaca   60

acaaccactc cagcaagaga aaccaaacca gtaatcgctt ctccctccga aacaaaacac   120

ccattacctc aaagttggaa ctttctccag aaagcagcgg cttcagcctt agacatggtc   180

gaaactgcct tagtctccca cgaacgcaaa cacccactcc ccaaaaccgc cgacccacgt   240

gtccaaatcg ctggcaactt cgcccccgtg ccggagcacc cggcgcagca ctcccttccg   300

gtggccggaa aaatccccaa atgcattgag ggcgtctacg tccgcaacgg cgcgaacccg   360

ctctacgagc ccgtcgctgg caccacttc ttcgacggag acggcatggt ccacgccgtc   420

aaattccact ccggcgccgn cagctacgcc tgccgcttca ccgaaaccca gcgcttagcc   480

caagaaaaaa ccctcgggcg   500

<210>   4264
<211>   516
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a03d1

<400>   4264

acatgcacat caagcgaaag aaaaacagag accagctgag cttcattgct aactacaccc   60

caaaagctac aagctggtcc ccaaaacctc tcactcccaa agtgaaaaaa atgaagaaaa   120

gtaaaaatct gcaacagaaa ctgaagagga gtagattccg ggggcgtatc tgcaagcatc   180

ccacagttaa acctctcctc agaaagtgaa aaactcactt atttaccgtc accaattcaa   240

gcttgtttcc tcaaatcatt tgaatgaata aaagtgccgt gaaacccata aggaactcta   300

gaaggaagct taacggaagc ctcaagcttc aaagttttgg cattcacaat ctgcagctcc   360

gatttccatt ccttctcatc atgcacgaat gcgagaatat agccatcatc ttcatcaccg   420

tcaacaccat ttggaagaaa cagaggctcc ccaccgaacc tctcttcccc atacatgtac   480

ttgttcactt ccccactgaa caaatcaact ttagcg   516

<210>   4265
<211>   513
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063a04a1

<400>   4265

ctttcttctt agttttcccc tcggtgttga gctacttttc acagccatgt tgccaagaag   60

tagaaccctt cctagcagaa tccaccaagg aattatagaa gagaggcata atgtcaggca   120

ctacttacaa gttgaagtgc gacccaataa tacccaaacg agaccgaag cgatgaatat   180

ccagtctaac tattccaagt gcttcgatga tgatggtcgc ttgaagagaa caggaacatt   240

ttggatggca actgctcata tcatcactgc tgtgataggc tcaggagtcc tttcactagc   300

atgggcggtt gctcagcttg gttgggttgc tggacctatt gtcatgtttc tctttgccgt   360

cgtcaatctc tacactttca acctattaac acagtgttac aggaccggtg actccgttac   420

tggacacaga aattacacct acatggaggc agtcaactcc atcttgggag gaaaaaaggt   480

caagttatgt ggcctcatcc aatatatcaa tct   513

<210>   4266
<211>   470
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063a04d1

<400>   4266

gactaaagaa ataacacgtt caaagacttt tattccttgt aaaataacac acatatcaca   60

1784

```
gactgtatac gtccaaatct gaggtatatt atgtccaatt gtcacttttt tcctcagatc  120

aagttgctct aacagcagca ggcatggaac gtatatactt taatttcaca aactaactta  180

tcattaggtt tgtataaaaa tatcatatgt gcaaacactt ctagctattt cttacggcct  240

tgatttaata actaggttta aatggcttgt aagtcttgag gtccaaaacc acccctgcca  300

tggaaccaac tgcagttaac aatgaaatga tgaggcaact ggcactaagt aactgaagtc  360

caagccagcg actggtccat cgtccaatct tcttttgcga aatatacatg tcaataggga  420

aataaactgt caagggccag aacccaaaag cgccaagtat tccaaccaca             470
```

<210>   4267
<211>   613
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063a05a1

<400>   4267

```
caagtactac aagggaagaa gaacttagct acaagctaag gaaggatcaa agagaatggc   60

tcaagcaatg gcatcaatga ctagcttacg tggttcctct caggctgtgt tggaaggtag  120

ccttggctcc acacgcttga atgtggggag tggaagcagg gtggcctcag tcacacgtgc  180

agggttcaca gttagagcac agcaacaaca agtgaatggt ggtgaggtac aaagtagccg  240

tagggcagtg ctttcacttg ttgctgctgg tttgaccact ggctcttttg ttcaagctgt  300

gcttgctgat gccaaaccta tcaaagttgg accacctccc ccaccttctg cggattacc   360

tggaacattg aactcagatg aaccaagaga ccttaagctg ccattgaaag ataggttctt  420

ccttcaacca ttgtctccaa ctgatgctgc acaaagggca aaggaatcag ccaaggaaat  480

tgttggcgtt aagaagttga ttgacaagaa tgctcggcca tatgttcaga atgatctgcg  540

tctcaaggcc gagtatctgc gctatgatct cacactgtca ttgctgcaaa gcctaggatg  600

agaagaatca ctc                                                    613
```

<210>   4268
<211>   292
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063a05d1

1785

<400>   4268

gttattaatg ttactaaatt aagtgtttcg attttatgtg cgttacttgt ttatcgtgac   60

tgctagaaaa taacccccta aaccaagggg gccaaagaca gcgagcaaaa aaggggccgt   120

agaaacacag cactaaagcg gaaccggaaa gcaaggagac ccagctgcac aaccaaggtg   180

gggaggggca agacgaaaaa gacgaagcgc ccctgaggcg gacttttgat caccccgggg   240

gggcgcaaaa tgggcgggga tggccccaag gggcatatgc cgggacatgg ca   292

<210>   4269
<211>   505
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a06a1

<400>   4269

ctcgagccga atcggctcga gtctcaatcg caaattttct cccccaaatc gtagatctac   60

ggttaaattg gtgtagtgtg gtaagatggg aggaggattt agagcgcttc acttagttag   120

gccatttctc tcgtttcttc ctgaagttca aactgctgac aggaaagtgc catttagaga   180

gaaggtcata tacactgtga tctctctttt cattttcctg gtttgtagtc agctccctct   240

atatgggata cactcaacaa caggtgctga tccattctat tggatgcgtg ttattctcgc   300

ttcaaaccgt ggaactgtca tggaacttgg aatcactccg attgtgactt ctgggctagt   360

aatgcaactt ctggctgggt caaagatcat tgaagtggac aacaatgtac gagaggatcg   420

agccctgtta aacggagcac agaagctact tggtattttg atagctgctg gtgaggcagt   480

tgcctatgtt ccttcgggga tgtat   505

<210>   4270
<211>   551
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a06d1

<400>   4270

agattcaatc caatgataaa ctcaagtata ttttgaggaa acccaaaaat gttaacgatg   60

tactacatac ttcctcagtt gaaaggggaa aaagaagtaa aaaaaatgac aacaaactag   120

```
actatgtcct cccttacgat gttaaacgac ctacaagtat aacgatccct caaacaaggg    180

gtgtgggaga gctcattggc agaacttaga aaccaaagaa gccaagctcg ctagctctct    240

ccttctcaaa tgtctcaaag tactgataga tgatggttac tgcaagcaat attcctgttc    300

ctgaaccgat ggcccccatg aaatctgcca acactgtcag ggcaccaata cagatgcctc    360

caaatgctgc ggcagtggga atgtatcgat tcagctcttt ctgcaagttt gactcacggt    420

gtccgggcat taccatttgt tgatccttca gctgcttggc aacatctcta gcagatgaac    480

cagagacttc aatccatgtc tttgagaaca aggcacatgc tgaaagcata tacacaagat    540

agaacagtgc a                                                        551
```

```
<210>      4271
<211>      393
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063a07a1

<400>      4271
```

```
tagcaatcac taagatcagt ggccgaggag gcttgaaatg gatcataact ggtttgtcca     60

taacaacact tcctaacact ttgattcttg gaatccctct cgtgaaggct atgtataaga    120

gtgaagcagt tgttctcctg gcacagatta ttttcttgca gagcatgatt tggtacaatt    180

tgttgttgct cctttatgaa cttgatgctg tcaagaccag gcctactgca gctgcatcat    240

catcacaagg atcaggagaa acagacacag gtcgtgaagt acaatcaaaa ggagaagaag    300

acgcagaacc tagaataaaa aggaagagga aggtcttgct cattcttgtc acagcgagaa    360

agacgctaat tataaaatcc tatacatatg caa                                393
```

```
<210>      4272
<211>      560
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220063a07d1

<400>      4272
```

```
atagacaaat taattaagta gtattaatta gttgagtgat cacatgtttt ctaattacaa     60

tgaatcaata atgcagtaaa tttacaacta tttataaatt gttattttac ggcaatgtaa    120
```

tgctgttatt ctcgatgtcc ctagctagca tatatttaac atttgctctt caaattgcta   180

ataggaagta gaaggccaat tccaccggca aggcaatgag cattcctaac aagatcgcag   240

tgcttaaaac ggctggatgg acattatact ctttggcaaa aacaaaagga acaattcctt   300

ggggtagagc tgcctgaaca attgccactt taaacaatgt gtctcttaat ccaatcacaa   360

aggaagccac agccatcagg gtaggtccaa gcacaacttt cagtcctatt gccaccattg   420

ccatccttgg cccacatgct atgatgcttg actgtgatgc cataaacaga cctaagctga   480

acatggccat gcctagacct ncattggaca atatttcgat tgactgacta acaacttcag   540

gcatatgtaa tccccaccta   560

<210>   4273
<211>   487
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a08a1

<400>   4273

ccgaccccgt gagcgtgcgt gactgtggca gtttctaatc cgttctctct ctctctctgc   60

tacctcttac ctagctcgct acctcacgta atcgttcacc gttcaccttt ttcttctcca   120

atcgcaacca aacttctctc tctccctctc tccctctctc tctctcatgt tcttgtagcg   180

gaaccgttct tgcttctcgg agaacatggc ctccatctcc tccgccgaac tcaattacct   240

cgtttatcgc taccttcaag aatcaggttt cacgcatgct gcttttactt ttggttatga   300

agctggtatt aacaaatgct ccattgatgg aaatttggtg ccgtcaggtg ctcttgctac   360

atttattcag aagggtctac agtactttga gatggaagcc aacttgagta attgtgatgc   420

agacctggaa gatgattttt cattcttaca acctttggat cttatcacga agatgtgca   480

tgaactt   487

<210>   4274
<211>   501
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a08d1

<400>   4274

1788

attaagaatg cactcctaca aactactttt tactaatgtt atagcaaatt acaacgggat   60

ccacgaacaa tgagttatac ctacaactat ggttaaaatg ggtaacctac cacccaccca   120

aaatacactt ccaccgatct catctcaagg ggtgaaaaga aagaatttaa tgtactagtg   180

tggagaaatt ggtgctacac agatattaca ttctaaaatc caaaacgcaa actgtattat   240

tagcaaaaca tgcagcaatc ttgtcaccct ccttattcca gcagacctca aaaatgcccc   300

cattgcctgt gtatgttttg acaatcttgc cgtccctcaa tgaccatatg tgcatggatc   360

tgtcaagaga cccactaact agataatcgc cgttgggact gaaagcaaca gaatatacgg   420

gatgcctgtg tccatccaag ctgtacatga gtttcccaag ttccacatcc catagcttta   480

cagttgagtc aaatgaagca c   501

<210>   4275
<211>   514
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a09a1

<400>   4275

cttgctgtaa atgataatga catccacaac attgttctgt catatcttat acataattgc   60

tacaaagaat cggtagaatc attcattgct tgcacgggag caaagcagcc gacagattat   120

ttggaggaca tggataaaag gaaaagaatt tttcactttg cactagaggg aaatgcactc   180

aaggctattg agcttactga acagctggca aaggatattc tagagaacaa taaggatttg   240

cagtttgatc tactaagcct tcattttgtt gagcttgtct gctcaaggaa atgcacagaa   300

gctttggagt ttgctcagac caaattgggc cctttcggaa aggagcccaa atatatggaa   360

aagcttgaag actttatggc ccttcttgct tataaggagc cagagaaatc cccaatgttt   420

catcttctta gcttagagta tcggcaacag ggtgcagatt gtttgaatcg agccattctt   480

gacacttgaa tcttccaagt tcacagcaat ggag   514

<210>   4276
<211>   405
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a09d1

<400>   4276

gtacaccccc aacgtttgga ttggtaactt gaaacttact gacaaaagaa attggaggct   60

taaatcttcc tttcatttcc ccatacatgt aaccaaaaga ttttacctta aatttttaaa   120

caatataata tatatcctta attttggcag tttaacctca atggattgaa aatcatttaa   180

attaagggaa attatgggac taaattttgg ctggccaacc tttcaatggg ttgaaaatac   240

cttaaattgg tacaaatttt gggaggggaa attgggtccc agatgagggc aactgccttg   300

gacaggggggg tctttttaat cttgcatttt tggccctgat cactcataga ttactcaggc   360

cttgcaaaag tgcacggaga cccaaaagaa caagatagct tggaa   405

<210>   4277
<211>   444
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a10a1

<400>   4277

gagtctgaaa atgaaaatct agagtttgtg aggaaggaag atgagtttga gggcatcaga   60

gatagcgaag aagttgaatc tgcaacctca cccagagggt gggttttacg tggagacatt   120

ccgagaccat tccgtccagc tttcgacctc tcagcttccc cccgaataca aagtggatcg   180

ccctgtatcg accttcatct attttctcga tccttctggg agtgtgtctc gcctgcatcg   240

cataccctgc gccgaaacct ggcatcatta catcggcgac cctctcaccg tagtggaatt   300

gcatgagaaa gatgggagcg tatttcactt gccttggatc agatctgact cagaatcacg   360

tgccgcagtg cactgtgcct cccaacgtct ggtttggctc ttttgctacc aaggacttta   420

cctactctgc ggtcggcgta ttcg   444

<210>   4278
<211>   532
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a10d1

<400>   4278

gacaagtaaa acatttcaac gctctaaaga ggcagggacc aatacctaaa atcaaaacta   60

gtaataagat aagttttccg tcgaaaagaa caacaacaac aacaacaaca acaacatagt   120

aatgtttatt tctcgcgttg aaagaggcat taattagaaa tagaaggaag gcgtctatat   180

gattattaga aagccgaaaa gcagaacaga tagatagtgt gagtcactcg gggaatgtga   240

gagcagtgac gagagggtgg aattggggaa aacgagcgag gagataagaa ggcttagcga   300

gctcgaagtc ctggtactga aacgcagggg cacaagtgca tcctacaaga gtgtagttcc   360

tctcactatc tctagcttca gcttcagctt cagctttagc acttccgaat accccgttcg   420

cagagtaggt aaagtccttg gtaggaaaag agccaaacca gacgttggga ggcaccgtgt   480

actgcggcac ctgattctga gtcagatctg attcaacgca agtgaaatac gc   532

     <210>   4279
     <211>   580
     <212>   DNA
     <213>   Glycine max

     <223>   unsure at all n locations
     <223>   Clone ID: jC-gmfl02220063a11a1

     <400>   4279

gttggaattt gcccatctaa aacctcaatc ttttactgaa aagtctcaac tttgaactca   60

ctcgaagtga tgatggagtc acacgtggat ctaggttttc tccttcaagc tctcactcca   120

tcttggaact ccgttccttt gcttgtgggg ttcttcactt acttggccgt tgctggatcc   180

attctccctg gaaaacttgt tcctggcgtt gcactactcg atggaactcg tctacactat   240

tgctgcaatg gtctgctctc gcttcttctg.ttggttgcac ttctcgggat cggtgccaag   300

atgggttttg tgtctcccac tgccatatca gacagaggac ttgagctgct gtccacatac   360

tttgccttca gttntcttgt aaccctgata tcgcattttt ccggttgcaa gtcacatagt   420

aaaggttcat cactaaagcc tcatctcagt ggaaacctga tacacgattg gtggttggta   480

tacaactaaa tccacagttc atgggtatcg acctcaaatt tttctttgtt agagctggaa   540

tgattggatt gctacttatc aattnatcta ttcctatgaa   580

     <210>   4280
     <211>   361
     <212>   DNA
     <213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a11d1

<400>   4280

ggaaaaaaga aggcccgggg ggggcagaaa aagggacccc aaaattaggg gggaaaaaaa   60

accccccaaa aaactttttcg ggggccacag gggtaaaaaa aaaaaaaccc caaatggaac   120

ccccaaaaac aagaaccaat ttacatggaa ggggtaaaaa accccggcaa aaaaaaaat   180

tcggggggaa ccccttttt ttttcacccc aaaaaacggg ggggaaattt ccccagggaa   240

caagtttaca aaactgggcc caaatttctt aaaacttttg ggggcaaagg ggttaaaccc   300

tttttttttt ccaaattacc cgattaagaa aaaaaatggg aaaaaaaatt ggaatggggg   360

a   361

<210>   4281
<211>   455
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a12a1

<400>   4281

cagaagagga aatagtagac ctgactgagc ctaggtttga atcattttgc atcacaaatg   60

gcaatgtccc atgaaaacat aagaccaggc acgggcagat gtgcagatgg cagaaatctg   120

aggagtttat gttgtgtgaa ctggtgatac acctctgttg cttgttctac caccggttac   180

tgtacatggc tgcattgaga tatcataaga gatgctgcaa ttattttgtt ttaagattat   240

cttggtctac atgttttctt tttccttgtt ttgaaagcaa aagcacatag gtgttgttag   300

atgagcactg aaaagtattc gtttgtttct tgtacagaaa agcataggat gatataggag   360

attctggttc ttctttattt ggagaggaac tggatgacat acacattaaa ttaaaggttt   420

tggtcacaga aataattgtc ttacaattat gtttg   455

<210>   4282
<211>   367
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063a12d1

<400>   4282

```
aaaaacaaaa tgggaaaaaa attttttggg ggaccaaaac ctttaattaa aggggaaggc    60

cacccatttc cttcccaaaa aaagaacacc caaaatcccc taaaccaccc aaggcttttt   120

ggaccaaaaa acaacccaat cctttacagg gctcattaaa caaccccttg gggctttggc   180

tttaaaaccg gggaaaaaaa aaccatgtac cccaaaatat ttttaaaaca aaagaatggc   240

cccttttcta aggaattcta aaggcggcct ggtccagaac ccggggggtaa aacaggcccc   300

agggggggttt ccccggttca cacaccataa accccctcaaa tttcggccat tggagcattt   360

gcccggg                                                            367


<210>      4283
<211>      611
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmf102220063b01a1

<400>      4283

atgagtatgc gtctagctat cttagctatc tcgatcgaac tgtccaaggt cctgtcacca    60

agaaggcgca cctcacccga accgtctcgg cacggcatcg tcgcgtcgct ctgcggttgt   120

gcgggtgtcg gggcgcggac attcaatttg actgtttagt taattaggta ttaatccccca   180

aactgacttg gcaacaattt cgtcagacaa cagatataca gcaccctgaa taggaacaaa   240

ccaaacaaac ttgaacagca acttactcta taaaccaact ggccacgggc ctgtacaacc   300

caacaaagaa cctgtggagt agcagcgagc taggtagagc actttgcgag atcgctgatt   360

acagaatggt gtggaggagg caccgttgat gggaggctga agcgcgatgc aatgcaacga   420

gcgtcgcagc gaacgtgcta agaacggaag gcgtgcgagt gggaggcgag ttttggagcc   480

ncggtgcaga aggatagttg ggaagacgcg gcgccaggcc tagacatgcg gtaacgaaag   540

agcctagcct gctcaaaggg aataaaaaaa tgagggggt agggtggttg ggtgggaagt   600

tgtaggggtg t                                                        611


<210>      4284
<211>      215
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220063b01d1
```

<400>   4284

aaaaaattcc caggccctgc ccttttttac ttgaacaagt ttttgccaaa tccccaaccc   60

ttctaaaggg gggtaatttt taaaacccc tgggggggt cccaaaaagc tcccgacaat   120

taacttttg gggcttacat tccgacatac cccagttcag cccccctttg ccataaaggg   180

ggccccaatt attagagaag ttttcagggg ggcac   215

<210>   4285
<211>   332
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063b02a1

<400>   4285

ggcaaggtca gtggtggggt ccttacccct ttttttctcg cccatacaat aacaatgtac   60

tattcacacc cctccacttg tccttctccg cccgccacgt cacctcctcc gccgtaacca   120

tgccctcctt cgaagtcctc ggcggcgcac gtgaccgttt tctccctgtt ctcccccact   180

tgtctcgccc ctatcatgct tttcctcttc tcgccgccaa ccgccacatc gaaaccatct   240

tcgcctgctt tcttcgctca gtccccgacg tcaggctccg gcgcgagtgc ctcaggaccc   300

aggacggcgg caccgtcgcc ctcgactggg tc   332

<210>   4286
<211>   519
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063b02d1

<400>   4286

aaaattaaaa aataaattat gaataatatg aaagttaaaa caattacagt acttgtccaa   60

tttgatagtt gtttattttt gctttctaca agacatatca aagataattt tgaacattat   120

tgacattggc caccgagcta cggcatccac cttgtcctgc tggacttctt gcacaaacaa   180

tagtgtagtt gcttccacac attagcattt ccagggatta tgaattggct aaagaatgtt   240

gcaggatata tagatatctt tttttggcca gcttccagga tgcatttgat gtatgaaaaa   300

tatcaagcag attgccacat tatacttcaa gatggtacaa ggtctcttta ctaccaggat   360

tactattagt ttctggagtc ttaactgctt cactctccaa atattgaata aagtccatta 420

ccaaaggatc agtccaagga gctcccagtg gagcttcatc accagcaacc caccctagat 480

ggccaccttt gggtgtcact attaacaagc agtttggat 519

<210>   4287
<211>   590
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063b03a1

<400>   4287

cccaaagggg accttagaga gcaatcttct accttctctc tcctctctct ctctctctct 60

cttttgcttt tattattctc tttcaatggc ttcatcctct tccagaacaa agtctagtgg 120

acccgttcta cgctccctct caccctccac cagattctgc tcatacacca cttccaaaac 180

tcctttctct tctccttcat cggccttcgc ttcctccaca agctctggct tttcgtcttc 240

atccttcttc aaccagccac gtcagcatca cgctcacagc catcaccgtg cggcatcgcc 300

cacccgtgtc aatctatgca gccccgcccc tctctcctct gccgtccggt tctcaatcga 360

tccacggtcc atatctccga accggtccat ctcgaaccag atcatcacga cgaagaacaa 420

ccgtccgatc tctggccaga agaagacgtg tatgtgctcc cctacgacgc accctgtgtc 480

ctttcgatgc agcctccaca ngaacatagg aagcagcaac cacaacgccg attcgtancc 540

ttcgaccggc taacatgcgt agatccgcta tgaagaaact cgctgtgaga 590

<210>   4288
<211>   425
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063b03d1

<400>   4288

aaaaaaaaag ggggccaaac tctgcttcca tagcaaaatt tatgtacaaa atgcaatttt 60

ggggagggcc attggcaaag atctatgcga atttcaccat tggggtccag acgacgaaat 120

caaaacttgc cggagaggac tcgccactgg ctcccagccg cttcgccgga atccaacttt 180

ggggggagat aagggcccca gggggggtct ggaatttaaa ccagtaaaat caaaaacaac 240

ctgtatgctg ggaatcgaaa aaaacatttt gttttcttta aaaatcataa atcctgggcc 300

tttgacatga ccgaaagacc actgggcctg ggcttgaacc ccggtttcct cctgtgatga 360

tgcgaactgg gaccaatgaa tgctgtcagg gcccgtttca cccaatcgcc cttcaggcct 420

tcgat   425

<210>   4289
<211>   598
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063b04a1

<400>   4289

attctctttc cctaaacctc tcagactcat gtctcagcct ttgaccacca actctgctga   60

tggtgattcc tccgtcgccg cacctcccat cctcttcgat tatcatctta tcgaccaaaa 120

acttctccaa aacatagtct acgatgctct tgtctggagc accctcaact gcctccttgt 180

tggtgacaaa tcagttcaga gatcaggaac agttcctggt gttggcctgg tgcatctccc 240

gctttctttta ttacctgggc catttcctga aaatcattgg aagcaagcgt gcgaattagc 300

tcctatattt aatgaacttg ttgatcgggt gagtttggat gggaaatttc tccaggaatc 360

tctctccaga actaagaatg cggacgaatt tacctcaaga cttttagata ttcattctaa 420

gatgctacag attaacaaaa agaggacat acgcatggga atagttcgtt cagattatat 480

gattgatgag aagactaaat cacttttgca aatagagatg aacacgattt ccactttatc 540

tggcttgatt gctgccttat gactggactt cataagagct tactttctca atatggga 598

<210>   4290
<211>   524
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063b04d1

<400>   4290

agaagaacag ttcatcaatt tttattggtt agaatcaaac aggtcgttga gtacagacac   60

catcccatag gagcaattaa aagaaacaac aatgcctctt ttcttctttc actgttttcg 120

1796

gagatataca aacaaaatca ggagtcagga gacttgagtg gtaatatata aaccatacat   180

aatgttttga attgctttga taacttgggg gttggctcca tcaagttagg tatacagtat   240

ctaccactcc aaaaccaggc aaaactccac cttcataaga tgatgatatt tttgtacgca   300

ccatatagcc actttcgtta ttaatgataa ccttatcctt attccttaaa taagtaccaa   360

atactccagc ttctgaaatg acatgaccct tatcccaatt accatcacgc accaaaattg   420

ctggagaagt ggctggaaat atcctctgca taaggatgta tgctgcatct tcttcagaac   480

ctgcttcctg taatttaaag agggttccct caactcatca ccat   524

<210>   4291
<211>   372
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063b05a1

<400>   4291

gcaactgcga ttttggatcg gaacctcttc tgcggcgtag caatgggaca ctccaacgtt   60

tggaattctc acccaaaaaa ctacggtcct ggttctcgca cttgccgagt gtgtgggaat   120

ccacatggat tgatcaggaa gtatggcctt atgtgctgca ggcagtgctt ccgtagcaat   180

gccaaggaaa ttggcttcat caagtatcgc taaaagagct gttgtcacct acggaccaat   240

attatgttct ggcactagga tgttttgaag atgttatgtt tgaagaaact tgagacttgt   300

tttttcatc tattttatta tcagacataa tgtgtggaac gaagaatact tttatataaa   360

ttgttttgca ct   372

<210>   4292
<211>   372
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063b05d1

<400>   4292

agtgcaaaac aatttatata aaagtattct tcgttccaca cattatgtct gataataaaa   60

tagatgaaaa aaacaagtct caagtttctt caaacataac atcttcaaaa catcctagtg   120

ccagaacata atattggtcc gtaggtgaca acagctcttt tagcgatact tgatgaagcc   180

aatttccttg gcattgctac ggaagcactg cctgcagcac ataaggccat acttcctgat   240

caatccatgt ggattcccac acactcggca agtgcgagaa ccaggaccgt agtttttggg   300

gtgagaattc caaacgttgg agtgtcccat tgctacgccg cagaagaggt tccgatccaa   360

aatcgcagtt gc   372

<210>   4293
<211>   52
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063b06a1

<400>   4293

ggattactaa aatattgggt gatcctctat tgcttcttag caatggaaca ct   52

<210>   4294
<211>   533
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063b06d1

<400>   4294

aaaaagggta aaaagattcc aagttcaata tactcaggaa tttaattaca tcaaactgca   60

gacgccagct ttacaaaagc aaattttcca aataaactgt gtcttgactc tatatctgag   120

gcacccattt atttctatcc aattcaatat atacattcta tgcttgcaca tgcaaaacca   180

tgacacagcc acattgcacc ctatcgcatt gtgactccat catgtggcca agggaacaaa   240

caaaaccttt tgtaccttca tgcttttttgg accctgcaat gccaaaaaat taaggattgc   300

ttcaactgcg cacaattgcc tagccagaag aagacgccgt tctgggagaa acaagaactg   360

gttcattgct tgcagctttc atggctgcaa tctcttctaa gcgcttccat gtagcctctc   420

gcttcaactt caaagctttc tcttgtgctt catcttcctt gaacttgcgc aggcactcct   480

ccaagagttc aggatcggta tcagcaaaga tcttgcgtac atttattgtc aaa   533

<210>   4295
<211>   351
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063b07a1

<400>   4295

ttcggctcga gcttcttcta tgggttggct tagtcggttc ataactgccg tggctttctt   60

agccatcgga gtgatattct caccggagac actggggtca aaatcaacca cactttccac   120

ctacctcaaa ctcgctcacc ttctctgctt ctccaccgac ttcggcgccg ctctgtgggt   180

aacattcatc ggcggcatca tcatgtttaa aaatctgccg cggcatcagc ttgggaacct   240

gcaaagcaag atgtttccgg cgtatctctc gatgcggggt gtctgctgcg ccgtatcggc   300

ggcgttcttt ggctaccttc acccgtggaa aactttctca ccactgagag a   351

<210>   4296
<211>   411
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063b07d1

<400>   4296

cgccctggcc gccctttttt tttttttttt tttttttttt tttttttttt tttttttttt   60

tttttttttt tttttttttt tttttttttg ttgtttattt ttgttttttta ttttattttt   120

tattgttggg aaaccccccta aaagaaaccg cccattgtgc tacgggggggg ggggggggact   180

gccggacttc tccagtgggcc cccaaaaaaa ttggtggacc aaaaaaaagg gggagaagca   240

aaaaagggcc cctagaaaaa tgggcccaac atttaaaacc tttttaggcg ggggaaaaag   300

acgcaaaggg ggaaagaaaa aaaacccggg ggcgccacat taaacctgat gatggaaaaa   360

agtctcttga ctaccaaaaa aacggggagc aaatcgggac aaaaaagaaa t   411

<210>   4297
<211>   554
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220063b08a1

<400>   4297

gtacaattgt ggggtcacat tctcaaggac gcgctttgca tgctgtgcac attttggtga   60

aggaagttag atctgtggga gaatgtcgtc gtcggaggcg cagggagcgg cgcagaggcg   120

```
atatttgaca gtggggtggt gccgtcgtct ctcgtcgaga ttgcacccat tcttcgcgtt    180

gctaatgagg ttgagaagac tcatcctaga gttgcttatc tctgccggtg ttatgcgttc    240

gagaaagctc atagactgga tcctacttca agtggtcgtg atgttcggca attcaaaact    300

gcccttcttc aacgtttgga aagagaaaac gatccaacat tgaaaggaag agtaaagaaa    360

agtgatgctc atgagatgca gagtttttat cagcattact acaaanaata tatccaagct    420

ttacaaaatg ctgctgataa agctgatcgt gcgcagctta ccaaggcata tcanactgcc    480

aatgttcttt ctgaggtttt ttgacgctgt taacatgacg cattctatgg aagtggatcg    540

tgagatttgg agac                                                     554


<210>        4298
<211>        502
<212>        DNA
<213>        Glycine max

<223>        unsure at all n locations
<223>        Clone ID: jC-gmfl02220063b08d1

<400>        4298

gcatcagacc ccacctccat ttaccaagca atgctatgtt gaaattggtg atatccttaa     60

tgtccagacc tccattttct ttaggtgatg tcaccgtgtc ccacctaatc catgcgatct    120

tattttggtc aagccctgct ccccaaagaa accttcgctg cagtctcacc aatttgtcca    180

ccactaattt aggtgccgtt agatttgtca aaatttagct gctcaactgg caggcaaaag    240

aaatcagcat cagcacgcat cggccagcca agctgaaaac aatcagctga ccagaaatat    300

tcatttaaat catcatagtt cctccattgt gaatgctttg acctaccctt tttgctccgt    360

gcagcttcct taagaaagcc tcatcttcac ctacataggc tggcttgaca ttctctcctg    420

tcattggact aacattgcca gcaagcatac cgtacaactc aaaggcatat ggtgatagat    480

atagcanagg cattctggaa tg                                            502


<210>        4299
<211>        578
<212>        DNA
<213>        Glycine max

<223>        unsure at all n locations
<223>        Clone ID: jC-gmfl02220063b09a1
```

<400>   4299

gcgtttcttg gtgcttggta taaagcgcaa gcgtttttgg gttcgggaaa agaaggaatg   60

aagagaaggg tctagaacaa cacaacacta cggattgaat attgaattaa acgacgctca   120

tggctacggt gccggagaag aaagcgaagg aagcattctt cgacgacgaa ttcgctctgg   180

ccgttgatct ctactctgaa gccatacgat tggatcccaa cgacgcaaat ctcttcgcgg   240

acagagccca agcccatatc aaactcaacg ctttcactga agccgtttcc gatgccaaca   300

aagccatcca attaaaccct tccttgtcca aggcctatct tcgtaaaggc accgcttgta   360

tcaaactcga agaatatcac accgtcaagg tagcgcttca aaacggtgct gcttttgccc   420

aagatgattc acgattcgcc aacttgattc aacaatgtga tcgcttcatt gaagcagagg   480

aatcaagtgg ccttactagc ancctatcat canatggggt ccatacatct gtaccgtctg   540

gtaatggttc ccatttcagc aatagaaatg atgggatg   578

<210>   4300
<211>   491
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063b09d1

<400>   4300

aagctgatct tcatacttaa tatttccaat atgtgattca caaaaaataa aaacccgatt   60

ttcctcatgt ttagcattat caacatacac caacaaaata aaatccactt ccacagcaaa   120

agcaaattag gtcattctcc cagctaatta ctttctccaa cacaaaataa taacgagttt   180

acagaatttc ttttttctttt tgcatttatt tgttggcagg agttgggagg agacgaactt   240

gaactctcac aagcataagc ttaaatgcat atttaagtac cgaatcaata ctcccatttt   300

ttcaactcca taccttctgg agcactgcct tccaccttct ttgatcccac ttctttccaa   360

tcagttgata gcactgttcc atttgactcc aagaaagact tgctcattgc tctcctcatg   420

tcctcatctg cattttggta aatatcacgg aacaatttac tcaaagcagc atcaccatca   480

agctnttctt c   491

<210>   4301

<211> 173
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063b11a1

<400> 4301

gttacgtgct ttgctataat atctttggat ttaagtaagg aggaaaattg ttattatttg   60

tgccatattt gttggctgac caagttgaag tgcttgtgta ttaacggttt gctcatgggc   120

aatatgacct gtaaaagatg catactcgaa gtaaaaacta ttgctgtaat ctt   173

<210> 4302
<211> 176
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063b11d1

<400> 4302

aagattacag caatagtttt tacttcgagt atgcattttt tacaggtcat attgcccatg   60

agcaaaccgt taatacacaa gcacttcaac ttggtcagcc aacaaatatg gcacaaataa   120

taacaatttt cctccttact taaatccaaa gatattatag caaagcacgt aacctt   176

<210> 4303
<211> 489
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063b12a1

<400> 4303

gagagatgct tgctggtgtt aatccatgcc taattgagtg ccttcaagtg ttccctccaa   60

agagcaagct agatcccaca gtgtatggtg atcaaactag tacaataacc aaagaacact   120

tagagatcaa ccttggtgga ctctctgtgg aacaggcact gagtggtaac agattgttca   180

tattagatca ccatgatgca ttcatcgcat atctgaggaa gatcaatgac ctttccactg   240

caaagtctta tgccacaagg accatccttt tcttgaaaga tgatggcacc ttaaagccat   300

tggccatcga attaagtttg ccacatccta tgggagatga gtttggtgcc gttagtagag   360

tcgtcttgcc cgcagaccaa ggtgctgaaa gtacaatttg ctaattgcc aaggcatatg   420

ttgttgtcaa tgactcctgc tatcatcaac tcatgagcca ctggttaaat actcatgctg   480

tgattgaac   489

<210>   4304
<211>   425
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063b12d1

<400>   4304

gacatagaga aatttgattt gacattcata gatcagaata tcagacttac atacgggtga   60

acatgatacg ggtgaacatg ataggagcac aatactatac ataaaaactg acacaacacc   120

ctattagata tgaaaaacta gatagcatcc aattacaaaa cttaagcata cataagaaaa   180

ttatgcacac ataagtttgc acgtttattt gtcaatgaga ggtacgttgg aaggaaagaa   240

aaccacacac cacacaccac acactctcat tagatagaga tgctgttggg aattcctctg   300

aaagtaaggc cttccccact ggtaggaaga agcacagtgt agggcatctg cgccggtcca   360

ttacggttcc taaggcttga attcttgttc ctccctgaga ttttgtcctc aatttccttc   420

agctt   425

<210>   4305
<211>   444
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c01a1

<400>   4305

aaaaaagaca acccagagag cgcgtcttaa taaacgctct tctctgaaaa cccccatttc   60

ttttcttctt tcttcttctc tttcgcttct tcgatcttcg atcttcgtcg ctgaaaatga   120

gagagtgcat ttcaatccac atcggccagg ccgggattca ggttggaaac gcctgctggg   180

agctttactg cctcgaacac ggcattcagc ctgatgggca gatgccaagt gacaagaccg   240

ttggtggagg tgatgatgct ttcaacacct tcttcagtga aactggggca ggaaagcacg   300

tgccccgtgc gattttgta gatcttgagc ccactgtgat tgatgaggtt aggactggga   360

cataccggca actattccat cctgagcagc tcattagtgg aaaggaggat gcagcaaaca   420

accttgcccg tggccactat acca   444

<210>   4306
<211>   402
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c01d1

<400>   4306

gttcccaaag tttaattctt ttaaaacttt aaattaaacc aagcaatttt aaaaaaatgt   60

ttttacccca cttaacataa agttccaaaa gtcccggaac ttggcaagtt ccccggaaag   120

tccaacgata cggaaagctc caaaagaaaa acaacacaaa aaggaaccta ataggggcaaa   180

cttctaatca taatcctttc cttgatcacc attttaagtt gcctctgcac caacttcctc   240

ataatccttt tccagggcac caagatcttc aagggcctta aaaaactccc ccttttttat   300

acccttacca acataccaat gaacgaacgc ccttttggca tacatgaggg caaaattgcg   360

gtctttgcaa aaaaagacct aaacaacact ggtggaattg ga   402

<210>   4307
<211>   430
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c02a1

<400>   4307

ggctcgagta tagcccaagc cctatacaac caaaccctaa cacacaccca tttgattcag   60

tttccatggc tagcctcaag gttgcatttt tggctgcagt gctctgcatg gttgtggtga   120

gtgcacccat ggcacatgca gctatcacgt gcgggcaggt gacgaatagc ctgatcaatt   180

gcatcggtta ccttcagaac ggaggaacgc cgccgtcggg atgctgcaac ggagtgaaga   240

gcctcaatgc cgacgtcaag accaccgtcg accgacagac ggcgtgcaac tgcctcaagt   300

cggccgtcag ccaaatctgc tgtttcaaag tcaacaacag cgtctcgctc cccggcaaat   360

gcggagtctc catcccctac atgatcagca ccctcaccaa ctgcgctacc atcaaggttt   420

gaagagaaag   430

<210>   4308

<211>   469
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c02d1

<400>   4308

agggagaacc caatattaaa gtagatataa ctatgtgtaa ctcatacaga gaaataacaa   60

cgcaacacaa tttaaagcta tccaatacaa atctctcata caagaggaga ggggcatata   120

agtggagccc tcatcaccct cgatcttatt cttaatatta ataatgctac tcatatacta   180

gtgagtagtt tccggtttcc tgcgtccatg actttctctt caaaccttga tggtagcgca   240

gttggtggag gtgctgatct tgtaggggat ggagactccg catttgccgg ggagcgaggc   300

ggcgttgttg ctttgaagc cggagatttg gctggcggcc gacttgaggc agttgcacgc   360

cgtctggcgg tcggcggtgg tcttggcggc ggcattgagg ctcttcactc cgatgcagca   420

tcccgacggc ggcgttcctc cgttctggag gtaaccgatg caaatgatc   469

<210>   4309
<211>   536
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c03a1

<400>   4309

gaagaagaag ggtgagctaa agtcaatttt ccttcctttc ctttccacta gtcacataat   60

cccgctagtg gacatggcca gactcttcgc cttgcacgac gtcgacgtca ccatcatcac   120

caccgcacat aacgccaccg ttttccaaaa gtccatcgat ttagatgcga gtcgcggtcg   180

ccccatcaga acgcacgttg tcaacttccc cgccgcacaa gtgggtctcc ccgttgggat   240

cgaagccttc aacgtcgata cgcctcggga aatgaccccc agaatctaca tgggcctatc   300

ccttctccaa caagtcttcg aaaaactctt ccatgacttg caaccggatt tcatcgtcac   360

cgacatgttc caccccttgga gtgtcgatgc tgctgctaaa ctcggcattc cgaggatcat   420

gttccacggc gcaagttatc tcgctcgctc cgctgcgcac tccgttgaac agtacgcacc   480

ccacttggca gcaaaattcg acaccgacaa gttcgtgtta cctgggttac ccgata   536

<210>   4310

<211>   438
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c03d1

<400>   4310

ggcaggaaat cgttaagttg tcaacacgat cggaaattcg tagtacatac tcacgaaaat   60

gatgatggac atcctgagta ctagaagtta caaaaacaat gaaactaaga aaaagaaaat   120

gatggatttc cctgggatac tgatactggt aagactaata agagggtccc aaaatacatt   180

actcttgttc aaaagatgga aaagcagaac cagtcttaag gattgggtgc gggctcttga   240

gcctccttgg aaagcttgat ctccttgagc tcccgaatca attccttcat gttggtgtgc   300

gaagatccac caacctttat agcactcttc gccgcaacgc ttagctcctt gggtttattg   360

ctcattcctc catcttcttc ttcctcactc atcaacgaag caatcgcgtt tacaatctgc   420

tcccgtttac caccttaa   438

<210>   4311
<211>   466
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c04a1

<400>   4311

attcatttca ttttctcttt ggaataacct gcagggttgc ttccatttca acatgtagag   60

cgcgctcttt gttgttttca tttctgacaa gttctttttt tttgttgcgt tgcaaaatcc   120

ttctcctcga ggcggcggca tggaaagcat tgccgcgcag ctgaagcgcg gcatctcgcg   180

gcagttctcg tcggggtcgc tgcggaggaa cctctcgtgg cagttcacgc gccaggcctc   240

gctggatcct cgccggaaca accagcgctt cagcttcggc cgccagtcct cgctcgatcc   300

gattcgccgc agcccctgct ccggcaacgc cgagctcacc gtgccggaga acctggactc   360

caccatgcag ctcctcttca tggcctgccg cggcgacgtc aagggagttg aggatttgct   420

caacgaaggc atcgacgtca acagcatcga cctcgacggc cgcacc   466

<210>   4312
<211>   546
<212>   DNA

1806

<200> Glycine max

<223>   Clone ID: jC-gmf102220063c04d1

<400>   4312

ataagaaaat ttctgagatg ttatatctcc tttatggtac attgtacaga gaggagctgt   60

tccagccctc tagtagacag gaacatagga cgaaccatgc aaattcattt tcacgctcaa   120

attaatccaa gctcaagtta atattattcg aattccaaaa ttattaattg caagggctat   180

taacagtaca ccaccatgaa gctgacaaat tggttttgag gatgcaaccc tgaacttgat   240

gtcttccttg ccacgtagta tgtactttgt tatttatttc caagggagtt taaaagtatc   300

tttccaccat ccttgttttg agcaatttgc aacgattttg tccaaccgtg caatgacctg   360

agaaaatgtt ggcctcacaa caggtgttgg atcccaacat tcctcgatca actctttcaa   420

ctctggagga taatgttttg gtttgatctt gaatgctggt cttttccctt ccaagcacat   480

cagtctaact gcctcctccg aggacttggg atggaaggga tgtgtaccct ctatcatctc   540

atatat   546

<210>   4313
<211>   572
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063c05a1

<400>   4313

ttctttcttc cttcttcact cttagtctca ctcactcacc attcaccatt gtcctttgca   60

tcgctctaag caacacgtcc ttttcttcac atattccagt gtgctgttct gagattcgga   120

gagatgggtt tggaagaagc ttccagaaac tgtatataag tcatcatgct gttgtgacag   180

ttaaaggtag cgtggtgtgg ggaaggagcc tagtgattag ttgtttgaga ccactaagga   240

agtgaacaag aggatgtcaa acagtaggaa cactcattgg tgttatagtt gcaggaggcc   300

agtttggctg ggacggcgag atgcggtttg tcctagctgt aacgagggat ttgttcatga   360

acttaatgat atggtgcatg ttaatccttt tgacttattt gaaatggaca acaatgaaga   420

acgagatcaa aggcttggac tcatggaaac attctctgcc tttatgacgc atcaaatggc   480

agataggggc agaagccttg acatcagggc gcacatcaga tcaaatcctg aaccagtgca   540

```
gggtttgctc cttgtgatct ttgtggccaa ta                            572


<210>      4314
<211>      474
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220063c05d1

<400>      4314

agattcaaac aattatgcat aaataaccat ttatacaaaa tagttcacaa ctttagaaag   60

caaatccaga ctggtcgact caggtctaaa accgttttca ccccaagcta gcagcatcag  120

tccataagat ttttcaatca acaggagcag atttaataaa cacaagacaa tgttctactc  180

acactaagtc attcaaatgg ccacccagaa taccctgcat gatgatgatg ctgttctca   240

gggatagttg gtgtcggtga gctgcttact gttgcttcat cattactgct tgaatgagaa  300

gaacgaaaag gccactacat ggaaaatgga tttctccttc catggctctg cctaccacta  360

ctacttaaac ttgcacttct acttctacca tttgtgctgt ggttactact actcaatcct  420

tgtggcagca gttgctgacg acaaactggg caggagttat gctggaccaa ccat         474


<210>      4315
<211>      473
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220063c06a1

<400>      4315

agaaaaaaga ggcgcaagat gagtggtagg gtttctggga aggtgaagtg gttcaacgat   60

cagaaggggt ttggattcat aacccctgac gatggcagcg aggaactctt cgttcaccaa  120

tctcagatca aatctgacgg tttccgaagc ctagctgaag gagagtccgt tgagttcgct  180

attgaatctg aatctgacgg acgcgccaag gctgttgatg tcactggccc cgacggcgcc  240

agcgtccagg gaaccagacg cggcggtgat ggtggccgaa gctatggcgg gggacgagga  300

ggtggtggag gtggatatgg cggtggcggc ggctacggtg gtggcggtgg atatggtgga  360

ggcggtggct actgtggtgg cgggcgatgc ggtggtggcg gtgcttgcta caactgctgt  420

gaatcgggac atctggctag ggactgcagc caatgaggct gtggaaacag gta          473
```

<210> 4316
<211> 535
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220063c06d1

<400> 4316

accacagaaa ccgataacaa tcatccaatt cattatagca aaatgtaggt ccaaacagat   60

tttgtttgca gattgtaacg ataacacaga aactttcatt taaataacca aaaaaaagaa   120

aaatctcacg catctactta taagaagcca cagctttgac agaaaccatt aaaatcccta   180

caacatgtta aagtaaaaac ttaaaacaat ccgcataaca taaaccacca taacagtaat   240

ttcaacgagc acttgatggg caatctctgg cgaaatgccc agactctcca cagctgtagc   300

agcttcctcc gccgccacca ccttctccac caccaccgta cctcccgcca ccgccgcctc   360

catacctgcc accaccacca ccgccttcgc cgtacctgtc tccaccgcct ccttggctgc   420

agtccctagc cagatgtccc gattcaccgc agttgtagca agccccgcca ccaccgtctc   480

gcccaccacc accgtagcca ccggctccac catatccacc gncaccaccg tagcc   535

<210> 4317
<211> 420
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063c07a1

<400> 4317

gctcggaatt cggctcgagc ctgagtgtcg tccccaatcc atagcttgga attccagaaa   60

ggcttcagct tcagcttgct gctcccttct caacttcaac aatttcgata acacttaatg   120

tcctgctatt gtagggacat cagtattgct aatcatgata tggtcaaggc tcagtaggag   180

aactcatctc ttgccatacc ttagggcttt gcaaacagac tcaattgaat ccaggtgcct   240

atctatcatt cctaaaggat caagttacaa gttcattaat cctaatacca gcttccaaca   300

caatttctct tgtaatatac ggctatcaaa gtttaagcaa gaattgagta caaaaccatt   360

ccatctgtgt taccgctctt cagcttttgc ttcacagtat gctcgaaagt catgttccat   420

1809

<210>   4318
<211>   380
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c07d1

<400>   4318

gccccgttaa actattacca atattcatac catgctagtt tcccctgatt gtaaacgtca   60

ttgtcactta ccatttgggg aatatatctc aaccttttac agttcttaaa taagtttac   120

tatcaataaa ttttaaaagc aaaattattc attcatctaa atggctaatt tgaagaggtt   180

ctccaaatcc ctgcttgcat taacttaggg gccccataaa attagcataa ttccaaatgt   240

catgggatgg gaccttgaac cttcaaaagt tgatcacatg ggttttctag tagttttgct   300

gaagctgaaa atattcaaga acttggcaag cgtaccgaag aggcaagctt ttttatacgt   360

gggaaaccaa tatgaaaatg   380

<210>   4319
<211>   518
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c08a1

<400>   4319

gcattgtgaa tgcagtgcgt gatggtttga atttggttcc atacaggtac actgtgtgta   60

ggcagggaag ttctaaacta gacgaagctt tagaaattgc ttctgacttc ccgcgtgtaa   120

gtgcacttgt cgtttctgag tttataggtt gctcaccatc tcttagtggg gcaataaggg   180

taaacccatg ggatattgat gcagtagctg aagcacttaa tttggcaatc acaatgcctg   240

atggagagaa gcagcttcga catgaaaagc actatcgata tgttagttct catgatgtgg   300

catactgggc tcgaagcttt gagcaagatc tagtgttctc gtgcaaggat cactatagta   360

accgatgctg gggcattggc tttggcctga atttcagaat tttgtccctc tctcctagtt   420

tcaggaggct atccatagac cacattgtcc ctgcatatga gaggtgcagt tgcagggcaa   480

tattttttgga ttatgatggt acagttgtac ctgaagct   518

<210>   4320
<211>   468

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063c08d1

<400> 4320

gagattctga atgacattca tgtataaaaa cccaacgagt ccaaatatac aaccaaccaa   60

tgaattctca cccgggaaga atgcctagat tctgtattct attaacatat tgagtatcct   120

ttaaaagcta cagctaaagc caacagatgc atccaatttc ccccaccaac caataaaaac   180

caatcactct aatcccctgt gctccgtttc tgagacctaa agctgctacc aatattcttt   240

acaatcaaaa gtcagactta aagctatttc cttaaatcct tcttttatgc atcttttcaa   300

aaacaaccat caaaattgtg cctttatccc atgctggtgc ctatagtgta ctttttaaac   360

atcattctca aaacatactt ctcttttctc aaaagggggtt tctgtagagc atcttgattt   420

atgccctgaa gccgcaccaa gaccctaaag tatgtcatca catccaca   468

<210> 4321
<211> 564
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063c09a1

<400> 4321

cccttcctca atgggcaact gttgctctca aggcaacgtt gccgacggcc cggctgacga   60

ctctgccgcc gccaatgaca agggagaagc taaccaacaa ggtagtaata accatgcaaa   120

cgacaacaat gataattcca caaaccctac cactgcccca acgacgacat caaagccacc   180

acccacggtc accccaccca cttcaaaacc ctcgaaaccg gctgcaatgg gcccggtcct   240

cggccggccg atggaggacg tgagagccac gtatacaata ggtaaagagc tagggagagg   300

ccaatttggt gtcacacatt tgtgcacaaa caaagccacg gggcaacaat ttgcatgcaa   360

aacaattgca aagaggaagc ttgtgaacaa ggaggacata gaggacgtga aagagaggt   420

tcaaatcatg caccatctct cgggtcaacc taacattgtg gaacttaagg gtgcatatga   480

ggacaaacaa tcggtgcatt tggtcatgga aacttgtgcg ggtggtgagc tttttgatcg   540

tataattgct aagggacatt acac   564

<210>   4322
<211>   519
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c09d1

<400>   4322

caagagagca tgatcatcat atatataagt cagtaaaata tatgaaacct agcacaaact   60

ttttttatg gtaaacctag cacaaactat taaggcctag tatttaaaag gaaataatac   120

ataaacaaat acccttttt taattcctaa ttatgtgagc cgcaatatca atacatgtca   180

tgttgcaacg ttttcacata taaggaaaaa gcaaaagcaa aaaatgtta atcaaccaaa   240

ccacctagtg tatcttaaca tttctcaagg atttgtttat gttcttctta ccccccctcc   300

ccctttccct cttttcttgg tttttgattc cacctttctc ccgttcctaa tctgtatccc   360

ctcgcaacca acaaagctat gatgaaatgc agcccatgat cattctttca ttcacccata   420

agcttctcca cctaagaaaa ccattgtact gatgaaacca ttttaagttc cttcccttag   480

agtccctcca ttatggcaat ggcaaatggc atgaatcac   519

<210>   4323
<211>   505
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c10a1

<400> ·   4323

cagtgagtga tcggtgttca cttgatcctt cataagtcgt catcatcatc atcatcatca   60

ccgttgattg aagaagatgc cgatcagaaa catcgccatc ggaaggcctg aagaggctac   120

tcaccccgac acgttgaagg cggggttggc tgagttcatc tccaccttga tcttcgtgtt   180

cgccggttca ggttccggca tcgcctacaa caagctcacc gacaacggcg ccgccactcc   240

cgccggcctc atctccgctt ccatcgccca tgctttcgcc ctcttcgtcg ccgtctccgt   300

cggcgccaac atctccggcg ccacgtcaa ccccgccgtc accttcggcg ccttcgtggg   360

cggcaacatc accttactcc gcggcatcgt ctacgtcatc gcccagctcc tcggctccat   420

cgtggcctcc ctcctcctcg ccttcgtcac tgccttccct gttccagcat tcgggctttc   480

cgctggagtc ggagttggca acgct   505

<210>   4324
<211>   524
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c10d1

<400>   4324

gttaccggaa aaagtaagaa gtactagtga aatggtacaa ccaaccagac ccgaataatg   60

atacatacat tcaattcaat tgtggaccag gtgagagcga gagcatgcac aaaatgataa   120

ttaaattaac ttaaaagaaa acttcaggat catcaaccat ccaaccaaag atcaacggcc   180

accgattcaa caggaaagaa aacacaaagg aaggaaaacc atacacagaa gaagattccg   240

gagaaattca ataatacaca ttttttttttt ttattatttc attttccccc tctagtagtc   300

agtgctggga agctgctcgt gggtgtggct gatgaagaca acctcgtaga taagcccagc   360

aattccacct ccgatgagag ggccggccca gtagatccag tggttggtcc aggtccagct   420

cacgacagca ggcccaaatg tcacagcagg gttcatggct gctccggaga aggccccacc   480

caacaaatgt tagcgccaac aatgaaacca atggcgatgg gagc   524

<210>   4325
<211>   439
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063c11a1

<400>   4325

cctctcttca cttttcactct ctctctctct ctcagccatc atcatgggag cagtgattct   60

cccagatctc ggcaccgaga ttttgattcc ggtctgcgcc atcattggaa tagggttcgc   120

cctcttccag tgggtcctcg tctccaaggt taagctctcc gctgccagag acgcttcccc   180

taacgccgcc ggcaaaaatg gctacaacga ttacctcatc gaagaagagg aaggcctcaa   240

cgatcacaac gttgtcctca aatgcgccga aatccaaaac gccatttncg aaggagcaac   300

ctctttcctt ttcactgaat acaagtatgt gggaatcttc atggtggctn ttgccatttt   360

gatattccta ttccttggct ctgtggaagg attcagcacg agctaccagc cttgcaccta   420

tgatcatact aaaatgtgt   439

<210>   4326
<211>   310
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c11d1

<400>   4326

gggacaaaga aaggtgaacc atgcggaaag gaatatattt ggaaaatcga ccacgcggaa   60

tagatgggaa acatactgga cattatgcta ggtaaatttt gataaccgac ttaacctaat   120

caagatgtct taaacctcct tgagacaata tatactttga tcaaaggctg ggccagaaac   180

ggctataaac ccaatgggat atgagatgac agctggagta agagactatc actaacccta   240

ggatgcatcc tgaagggcct gatgctactt gggaaggctg attcaaatga tgaccgccaa   300

tactatgttt   310

<210>   4327
<211>   470
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c12a1

<400>   4327

gcgagcctca ccgccgcgag aaattgacaa agaaatcgtc gtccttctac ggtcactcat   60

cgccgccttc catgtccggc gaaccgatcc ggcggccgaa gacggtgccg gatcttttgt   120

cggagaggca ccgcgcggct ttagcgacgc cggcgacgga tgttgtgcca aaacagccgc   180

caaagttgtt gttgaaggtt actcccatgg gaagcttggg accggtgcag gttgtgatga   240

cgccggaatc gacggtcgga gatttagtgg cggtgacggt gaggcaatac gtgaaggaag   300

gtcgccggcc aattttaccg tcgaacgacc cttcgcactt cgacctccat tattctcagt   360

tcagcctaca aagttcggat agggaggaga agctgatgga tattggatcg agacactttt   420

ttctgtgtcc gaggaagtgt ggtggtaatg gggacgcagg tagtggaacg   470

<210>   4328
<211>   462
<212>   DNA

1814

<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063c12d1

<400>   4328

cccgacatct aaatgtcaaa catcagtgac ttttattacg caagagtcta gacattatac   60

ccgtgtcaaa catcacagac gtattttttt acaagcaaca gcaggccatt cactcactga   120

tgcattctaa aattaaaatt aaaaataata aaaaaatatc tccaaataac atgtggctgg   180

catgggcaaa cactagtagc ctccaataat aataataatt tttaccgaga gaaatccatg   240

aaccttaacc aaccaaacgc gccacccttg ttcgttttgt cagcctctct tgaacacgaa   300

ccaaacggcg tcgttccact accctcgtcc ccattaccac cacacttcct cggacacaga   360

aaaaagtttc tcgatccaat atccatcagc ttctcctccc tatccaaact ttgtaggctg   420

aactgagaat aatggaggtc gaaatgcgaa gggtcgttcg ac   462

<210>   4329
<211>   420
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063d01a1

<400>   4329

tccactttttc ttcaaagtct tcatctcata tcctctttgt tgtgtcctca cacgagtgta   60

ggaacggcat tattgtgatg gagagccagg atctttcttc gccaccccac gtggacgcat   120

ctcgaccgtc ccttgggttc cccttgggca ctgcccttct cttgatcatc atcttcacct   180

tgagtggcgt cctctcttgc tgctaccatt gggatagggt gtgttccctc cgtcaatctt   240

tctctgattc cgaaccccaa atgccttcct cacccaccaa atctaagcac tccaaggaat   300

tgaagcaaaa caggggacaa agcttgccag tgttgatgcc aggggatgat gtgccaaagt   360

tcatagccat gccgtgtccg tgccagcctt taagaccaga cagcatcgtt gtcaccgtcg   420

<210>   4330
<211>   466
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063d01d1

1815

<400>　　　4330

gaaaggaaac ttctggatta tccatatcct cttcaagttg gttacaactt ttataacgtg　60

aggacccacg cttaacagta aatggttagc tgctgttgct aagctctaac tatatgaaca　120

acacgtaact accttccctg cctacgatct acccacagct tttaccccat tccccaagcc　180

cttctatcct aattggtaga tatcacaatg cttgggtagc tgcttcgtcc tagctgaatg　240

cctctggtgc atagcttcat cttcaacgtg cgtctcagat gcaatatcca ccatctagaa　300

actgcttaat agtttagata ctacacaagg atggattgaa tcaaatgaaa ttgatctcaa　360

aatctacgaa ttgacctgca accctaccta tcccttatta ttttattttt tttgcatttt　420

atttcttaca ctctaatttg ggtgaacaaa atgaatatca ttagta　466

<210>　　　4331
<211>　　　452
<212>　　　DNA
<213>　　　Glycine max

<223>　　　unsure at all n locations
<223>　　　Clone ID: jC-gmfl02220063d02a1

<400>　　　4331

gtttgttcag acaagacctc catgattcaa ttgctgctgg taactatcct gagtggaaac　60

tgtttgttca gacaatagat cctgagcacg aagacaaatt tgactttgac cctcttgatg　120

ttactaagac ttggcctgag gacattatac ccttgcagcc tgttggtcgc ttggtcctga　180

ataagaacat agataatttc tttgctgaga atgaacaact tgcattttgc cctgccattg　240

tggttcctgg tgtatactac tcagatgata agatgcttca aaccaggata ttctcttatg　300

ctgattcaca aaggcacaga cttggaccaa actatctgca acttcctgct aatgctccca　360

agtgtgctca ccacaacaat catcatgaag gtttcatgaa tttcattcac agggatgagg　420

aggttaatta ctntccttca ggtatgatcc tg　452

<210>　　　4332
<211>　　　550
<212>　　　DNA
<213>　　　Glycine max

<223>　　　unsure at all n locations
<223>　　　Clone ID: jC-gmfl02220063d02d1

```
aaatataaat actaacacat acaaacggca tttattgaga tagctcaacg agttgcatgc   60

atggagttat gggtacacaa ctaaaattgc aagaaatgga taagttcttt caaattgatc  120

gaaaatcaca tccttatcgt actctttgca cgtctgcaac tctaacaatc attctggggt  180

tggcaacaac attaaatatt tggcctcatg ctcagacgag atgctatctt ttggcctaga  240

gaacggtcag cctgagacca gtaagatatc cagacactgc ggatttcatg ggtgacccgt  300

gggtcagata aagcatcaac ccatcggcga ttaaatctat cttgcctgtc aggtgcccaa  360

gatcggtatc tctctccggg ctgcttaaag ttgttctcct tctcaattcc acactttca   420

cgccttccac tgcagatagc aggaggtatg gggaacgttt ctgcatgacg aacaggatca  480

taccttgaag ggaagtaatt aacctnctca tccctgtgaa tgaaattcat gaaaccttca  540

tgatgattgt                                                         550
```

<210>   4333
<211>   416
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063d03a1

<400>   4333

```
ctcgagacca gtactacccc tctccccatt ctctctttct tgttgggac ttccaccatg    60

agtgacgccg gcctctgcct ccgccgcag ttcctcgccg agacaccca cagaaccctt    120

tcgaactccg atttcagctt cccttcggag ttcccttacg agttccgagt gtcttctccg  180

ccctccacgg agaccgagag cagcgacggc gaagaggact tgctcgccgg cctcactcgc  240

cgactcagtc agacctcgct tcacgaagct cgcaagcagt tctctactgg ttcggagatt  300

ccaaggaaga cccgtcaggg tttggtcggt tcccctcagt cgacgctcgc cggaatcggc  360

agctggtccg gtctgagcac catttcggcg aaggaagccc caacgggtac acgcgt      416
```

<210>   4334
<211>   393
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063d03d1

<400>   4334

ggggaaaaaa gccaatttta ttcccaagga aggttaaacc ttttaccaac ttttttcccca   60

aaaattggggg ggggatttta aaaggggggaa accccccatt ttaaacccccc ggcttgaaac   120

ttggggaaag gtgacccccc ccataccttg ggctaaaacc cccattagtt ttttcccccct   180

aacccttacc caaaaaaaaa ccccccccct tatcccaatt tattcccttt aaaaaaaaaa   240

ggggggaaaaa aaaaaaaagg ggaaaaaaaa accttgccaa aaaaggggat cctttaaaaa   300

tttccttccg gtaaaaaccc ggtcccaaaa gctggaaggg aacccctttt tttctaaact   360

tgccaaaaacc atttttccaa attatttttt tgg   393

<210>   4335
<211>   617
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063d04a1

<400>   4335

gttatacttt atgatctgtt tgcagattct cgagcaccaa tatctgcacc gcttcctttg   60

ctattaaggg gtttccccag atccagcact ttatctcaat ctagtggtag agaaagtgag   120

agcacagacg gtaatgtttt gagcaatcat gaagcagtta catatgccaa tacatggact   180

tttctagtgc ctgacctcgt atgtgacgtg gccaataagt tattgtggaa gttctatttta 240

gacttagagg caatttctgc tagtagctca gaggtcccat cagtattaga gttcctgcag   300

cggcggaagt tggaagctaa caaggctaaa caattgtgct tgggtatagc acgtgcactt   360

attctagagc ataggcctgt gcctgtggtt gccaaggctg taaatgtact agtcacctca   420

tactcccatt caattaaaac tggtagctta tttaagggac tgaaaccaga gaagtcatca   480

acttctgttg tacaaaatac tggtgctgag gtatctgcta tcgaaacaga tgtaattggc   540

aaatcaatca ttcatgaatc tacgagaaga gtagacagtg gatctcttaa tatagcgtca   600

actgtttcaa gtttgga   617

<210>   4336
<211>   561
<212>   DNA
<213>   Glycine max

<400>   4336

aaacaaagta aatttcaatg taaagaattt catttagatg acagtatcta aaactaatct   60

aactaggagg acgtttattt aacctacaac atgaaactat taccaaatct attatgtatc   120

taatagaaac cggatgtcat aatgaggtaa tcgacacggt tgaacaagaa tacccaatga   180

taatgaccta aaatttctcc cattttttac ttctcaaaca gtcgtggatg agttcatttc   240

attcagtatg cagcagtatc tattatggtc tgaggtgttt ttgaagccag gaaggaaatc   300

tgtaaagaat cttagaaccg cagcaagatg ttgggagtca ttggaaacaa atgctgcttc   360

taagaacaat gatggccgga tcgtatccac cctgtacttc cgtgcatatc gtaaggcttc   420

aaggtagtat ccatcctgca caagcagtaa aacataatca tgatgtaaac caagttgtct   480

tagcatatcc agaccaagct tcctagnttg ggcattctgg cggccagact ctagtaagtg   540

tagtgcaact ttttagagga c   561

<210>   4337
<211>   510
<212>   DNA
<213>   Glycine max

<400>   4337

tgcagtattt gtttgaatca agaaacgatg tcactgttat gccatgtgga catacgatcc   60

ataagagctg cctgaatgaa atgagagaac atttccagta tgcatgccct ctctgctcaa   120

agtcagtctg tgacatgtca aaggtttggg agaaatttga ccttgagatt gctgctacac   180

gaatgcctga gcaatatcaa aataaaatgg tttggatcct gtgcaatgac tgtggtaaaa   240

cttctcacgt tcagttccat tttgtggctc aaaagtgtcc gaactgcaaa tcctacaaca   300

cacgacaaac atgaagcgga gcacgtggcc acgattattc attggcttca tcaaaagcct   360

tcactcgaga gctctcttga tgttgcgtga ctcgtgaagg cagtgaaaat agatgtgcat   420

ccattgggta cgtggatgtg cacgtgtggg aatttggagt gcatgatgag ccacattcag   480

agggataaaa ataatggttc ctacatgtga   510

<210>   4338
<211>   526
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063d05d1

<400>   4338

atctataata cttatttatt gggcttattc aaatataata catgaactct aacactctgg   60

actattccaa ctactagggg agccccaaca aattaaacca ccccactcca aatcaacata   120

agaaccatta ttttatccct ctgaatgtgg ctcatcatgc actccaaatt cccacacgtg   180

cacatgcacg tacccaatgg atgcacatct attttcactg ccttcacaag tcacgacaac   240

atcaagagag ctctcgagtg aaggcttttg atgaagccaa tgaataatcg tgggcacctg   300

ctccgcctga tgtatgtcga gtgttgtagg atttgcagtt cggacacttt tgagccacaa   360

aatggaactg aacgtgagaa gttttaccac agtcattgca caggatccaa accattttat   420

tttgatattg ctcacgcatt cgtgtagcag caatctcaag gccaaatttc tcccaaacct   480

tgacatgtca cagactgact ttgaacagat agggcatgca tacctg   526

<210>   4339
<211>   251
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063d06a1

<400>   4339

atgcaatgct tcaaggaagt ttgctagtca attggttgag gaattctcaa ttctacatgg   60

tctctgtgat tttctaatgc atgccaactt gatagtgttt ttatgtctca actgaatttg   120

tctccagctt gtggctattt tatgttattg cattcgggaa tgtatatatt ctaggagttt   180

gtctgagatc tatgatgatg tgtttgttac aataatatta ataataattg gtacatcatt   240

gtgaataata t   251

<210>   4340
<211>   251
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063d06d1

<400>   4340

atattattca caatgatgta ccaattatta ttaatattat tgtaacaaac acatcatcat   60

agatctcaga caaactccta gaatatatac attcccgaat gcaataacat aaaatagcca   120

caagctggag acaaattcag ttgagacata aaaacactat caagttggca tgcattagaa   180

aatcacagag accatgtaga attgagaatt cctcaaccaa ttgactagca aacttccttg   240

aagcattgca t   251

<210>   4341
<211>   539
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063d07a1

<400>   4341

ctcggaattc ggctcgagag agaatcgaag tggcacctgc tgtatggatc tggaaaattt   60

gaaacaacag ttctgcatgt aggaaatcgc atgcacaacc tggaactttg agcaagttga   120

agctgaatct tttgaagagg catagcttgc atgtagaagt tcaaaaatac ttctacaagg   180

ttgttctgac catgaaatat tctataacat ttataacaga gaaacttgac tacctctagc   240

atacaattaa gaagctgctt aagatgaagg acacattact aacattacgg acatgtattg   300

tatacaactt gttaaagcca ctgaaatttc tggtgtcttg gagtattttg tgatttgtga   360

tttgtcattt ttattttatt ctctatgcag tagttattgt gttttcagtc taaagtgcaa   420

tgagttaagc tttgtaatta agttgcgcgg gtggctcatt aagatgttac gtagaagtaa   480

cttacgctct gtttggaagc catattgtat cagaacaaat gcattctgct gtatgactg   539

<210>   4342
<211>   421
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063d07d1

<400>   4342

cattcataca gtaaaatgca tatgtttatg atacaatttg gcttacaaaa cagagcgtaa   60

gttacttcta cgtaacatct taatgagcca cccgcccaac ttaattacaa agcttaactc   120

```
attgcacttt agactgaaaa cacaataact actgcataaa gaataaaata aaaatgacaa    180

atcacaaatc acaaaatact ccaagacacc agaaatttca gtggctttaa caagttgtat    240

acaatacatg tacgtaatgt tagtaatgag tccttgatct taagcaggtt cttaattgtc    300

tgctacaggt agtcaagttt ctctgttata aatgttatag aatatttcat ggtcagaaca    360

accttgtaga agtatttttg aacttctaca tgcaagctat gcctattcaa agattcggct    420

t                                                                     421


<210>      4343
<211>      560
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220063d08a1

<400>      4343

caaccaagct tctctgttag aacaaaaaaa ataagaaaaa ttggcgtcat aagggccaaa     60

ggtgggaaag ttgaagtttt ttgttgaggt gaaagtgaaa tggttggcaa ggatagtctg    120

agggctgagg acttgaactt gtgctttgag aaacttatga tggtggctgg gagtgggaac    180

ggtgagaaag gggtgaactc gaaggttggg gtgatcaccg agtggaagga cattcctgtg    240

gagcttttga tgcagattct gtcccttgtg gatgatcaga cggtgatcac agcttctgga    300

gtttgtcgtg gatggagaga tgctatttac tttggacttg ctcgtttatc actctcatgg    360

tgtagcaaga gcatgaataa cttggtccta tctcttgttc cgaaattcgt aaaactgcaa    420

actctaatcc ttcgtcaaga caagcctcaa ctagaggata atgctgtcca gactattgca    480

aaatgctgtc atgaactgca gattctggat ctcagcaaaa gtttacgcct actgatcatt    540

actctatgaa cctgccttgt                                                 560


<210>      4344
<211>      320
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220063d08d1

<400>      4344

gttaacactt tcgtttattt tttgtacaaa actacgaaat atgatgatgg acacttctga     60
```

```
ggcctataag tcacaaaacc gaggaaacta ggaaaaggaa aaaggaggaa taccctggga   120

aacagaaact ggaaagacta aaaagagggg cccaaaatac aataccatag ggcaaaagag   180

ggaaaagcaa aaccaggatg aaggataggg tgcggactct tgagcccccc gggaaagctt   240

gacctccaag agctcccgaa taaaatcctg ccatgatgaa gcgcaaagaa ccaccaacct   300

ttgaagcact catcgccgga                                                320


<210>      4345
<211>      602
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220063d09a1

<400>      4345

ctcggaattc ggctcgagca aacactttgc catctctgca aaaataccag aattcacaaa    60

caagaacaga acattggtcc ttcagtattc tgtaaaattt gagcaagaga ttgaatgtgg   120

tggagggtac atcaagcttc tctctggatt tgttaatcaa aagaagtttg gtggggatac   180

accatatatt ttaatgtttg gaccagattt atgtggcacg gatacaaaga agctccatgt   240

gatactctcc taccacggtc aaaattaccc cataaagaag gacctgcaat gtgaaactga   300

caggttaact catttctaca cattcattct caggccagat gccacataca gtgtcctggt   360

tgataataga gagagagatt ctggaagcat gtatacagat gggatattc ttcctccacg   420

aaaaatcaaa gatgtcaagg ccaaaaagcc tgcagactgg gaggaaagag aatacattga   480

agaccctgat gatgtcaaac ctgagggata tgattcaatc ccaagagaaa ttcctgaccc   540

anatgctaaa gagcctgaaa actgngatga agaggaagat gggaaatgga aaccaccaaa   600

ga                                                                   602


<210>      4346
<211>      363
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063d09d1

<400>      4346
```

```
ccatggccct ttgtatgctg gatttggtat cttggggggt ttccatttcc catcttcctt    60

ttcatcccag ttttaaggct ttttaccatt tgggtaagga atttatttgg ggattgaatc   120

atatccctca ggtttgacat catcagggtc ttaaatgtat tctctttcct cccagactgc   180

aggctttttg gccttgacat ttttgatttt tcggggagga aaaatttccc aatctggata   240

catgcttcca aaatctttat ccatattatc aaccaggaca ctgtttgtgg catctggcct   300

gaaaatgaat gtgtcaaaat gagttaacct gtcagtttca cattgcaggt ccttctttat   360

ggg                                                                  363


<210>        4347
<211>        561
<212>        DNA
<213>        Glycine max

<223>        Clone ID: jC-gmfl02220063d10a1

<400>        4347

gtttccttcc cttccctaac gatctgagga agacaccaag cttctctcca cgcccttctt    60

gggtaatctg aagtgcagcg atggcggatg gattgcactc gcggcatcca tcagtagttc   120

agaagttatc tggacagtct tatttgttgt ctaggcttgc ccctactcac tcaagaaact   180

attccacaac tggtagttac ttcaatggag gcttgcagtc ttcgggtttg gttccagtca   240

tggcacatgc accggctgag aaaggagtgt ctggattttt gttggatttc atgatgggag   300

gagtgtcggc tgctgtgtcc aagacggctg cggctccaat cgagcgagtt aagttgctca   360

tccaaaacca ggatgaaatg atcaagagtg gtcggttgtc tgaaccatac aagggaatcg   420

gcgattgttt cagtcgaacc atgaaggatg aaggggtgat tgctctctgg agaggaaaca   480

ctgctaatgg tatcagatac tttcctactc aggctcttaa ctctgctttt taggattatt   540

tcaagaggct tttcaatttc a                                              561


<210>        4348
<211>        382
<212>        DNA
<213>        Glycine max

<223>        Clone ID: jC-gmfl02220063d10d1

<400>        4348
```

```
gggggggggg acaaaaaatt aaaaaaaaaa gggaaaaaaa aaaccaaaaa aaaaaaaaaa    60

aaaaaaaaaa aaaagataaa aaaacaaaaa aaaaggggaa aaaaaaaaca caaaaaaaaa   120

aaaaaaaaaa agaaaaacca aaaaaaaaaa aaaggttgaa aaaaaaaggg gagaaaaaaa   180

aaaaccccca aagggggga aaaccaaaaa accccttttt taaaccaaaa ttaaaaaaaa    240

aaaggggggaa aaaaaatatg ggccaaaaaa aggggggcaa aaaaaaatgg ggaaaaaaac   300

ccccccccgca aaaccctttt ttttttcaaa aaaaaaaagg gggagcttaa aaaaaaccgg   360

gaggcccta aaccccggaa aa                                            382


<210>      4349
<211>      151
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063d11a1

<400>      4349

caactttggt ttagaaaaaa caaaaaagac tatcctttgt tacatctgga tcagtctttc    60

tggaacagaa acctttgacc tttatagtaa ggagccagga tatgagaaaa ctttatcccc   120

gtggggatgc atataggcat ttcttctttta t                                151


<210>      4350
<211>      151
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063d11d1

<400>      4350

ataaagaaga aatgcctata tgcatcccca cggggataaa gttttctcat atcctggctc    60

cttactataa aggtcaaagg tttctgttcc agaaagactg atccagatgt aacaaaggat   120

agtcttttttt gttttttcta aaccaaagtt g                                151


<210>      4351
<211>      137
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063d12d1
```

1825

<400>   4351

gtacaaacag caacgtacat cggtgacgag agcaaatgaa aggcatctag catcacagct   60

ttcatgtagc acgagaatat tgtccaccta aattacaaca gaatacactt catcctattc   120

ttcgggggg gggggggg   137

<210>   4352
<211>   517
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063e01a1

<400>   4352

ctcaaatgga agaactgagc atgagattga actctctgaa cgaaatgata agtttgatta   60

actccaccac caccaccaac aactgcttga tgttcgatga ggcacaggag actacgactc   120

agttgttcaa tgattgtggc ttcatggatg cttggaatta cggaatacca ctcaatcaac   180

aaatcatggc ttacgctgac aatgacatgt tgatgatgta ttgattggtg aaattaattt   240

tgagttggag tttttgtgaa tcctggtgct aatcctttgt aacacaacta caacacgtgt   300

ttgttgtctc ttgttttaat ttgttttttt gtttttgttt ttcttgtaat aagtaatgtc   360

tattggtttc agtttatgtt atgtttaggg tttgctttgt gtattttaag aggggttatt   420

ctttcttctc gaaaatgtaa aaaatcgagc ttttattttc atgtagtagt atatgtgatt   480

tcgtgatttc cactctataa ttaaatctca gctatgc   517

<210>   4353
<211>   419
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063e01d1

<400>   4353

gcataagctg gagatttaat tgatatgagt ggaaattcac gaaaatcaca tatactacta   60

catggaaaat aaaagctcga ttttttacat tttcgagaag aaaaaataac ccctcttaaa   120

atacacaaag acaaccctaa acataacata aactgaaaac aatagacatt acttattaca   180

agaaaaacaa aaacaaaaaa acaaattaaa acaagagaca acaaacacgt gttgtagttg   240

tgttacaaag gattagcacc aggattcaca aaaactccaa ctcaaaatta atttcaccaa   300

tcaatacatc atcaacatgt cattgtcagc gtaagccatg atttgttgat tgagtggtat   360

tccgtaattc caagcatcca tgaagccaca atcattgaac aactgagtcg tagtctcct   419

<210>   4354
<211>   363
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063e02a1

<400>   4354

ctccaatgga agaactgagc atgagattga actctatgaa ctaaatgata agtttgatta   60

actccaccac tatcaccaac aactgcttga tgctcgatga ggcacaggag actacgactc   120

agatgttcaa tgattgtggc ttcatggatg cttggaatta cggaatacca ctcaatcaac   180

aaatcatggg ttacgctgac aatgacctgt tgatgatgta ctgattggag atatttattg   240

tgagttggag ctgatgtgaa tcctggtgct aatcctttgt gacacaacta caacacgtgt   300

tagttgactc ttgttctaat gagcttgtct gtgcttgatc atcttgtgaa aggtatgtct   360

att   363

<210>   4355
<211>   523
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063e02d1

<400>   4355

gcatatgctg gagatttaat tgatatgagt ggaaattcac gaaaatcaca tatactacta   60

catggaaaat aaaagctcga ttttttacat tttcgagaag aaaaaataac ccctcttaaa   120

atacacaaag acaaccctaa acataacata aactgaaaac aatagacatt acttattaca   180

agaaaaacaa aaacaaaaaa acaaattaaa acaagagaca caaacacgt gttgtagttg   240

tgttacaaag gattagcacc aggattcaca aaaactccaa ctcaaaatta atttcaccaa   300

tcaatacatc atcaacatgt cattgtcagc gtaagccatg atttgttgat tgagtggtat   360

tccgtaattc caagcatcca tgaagccaca atcattgaac aactgagtcg tagtctcctg   420

```
tgcctcatcg aacatcaagc agttgttggt ggtggtggtg gagttaatca aacttatcat   480

ttcgttcaga gagttcaatc tcttgctcag atcttccatt tga                       523
```

```
<210>      4356
<211>      467
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063e03a1

<400>      4356

gagttgatga catcacatac tggcattagt agaggttttg agaattctct agtaggaggt    60

tggagagagt caattgcatc taatagataa ggtccaccat accagttttt taaacgggca   120

tcagaagggg atgccaccaa attttgattt tccatagcac cttttctgtt caaagtgtgg   180

aggagatcat gaaaattgtg ggagaggcaa gggaccctcc tccagtatct aggcttgtca   240

aaggttttgg ctgggagggc aaagaagatg aaggggaaga agacgtggag gaagaggagg   300

atgaagaaga cgagtatgac aagagggtca aagaggttca tgcaagtgga gaatttcaaa   360

tcagttaagc agtataataa ttcttgtgta cttggttaaa gtattattat tctttatgct   420

agaagtcatc tatttatgtg tactataatt tataataact actataa                  467
```

```
<210>      4357
<211>      399
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063e03d1

<400>      4357

catctactat attactatta aaaagcattt taagctttaa ctatgcgggt tacaacaggc    60

atgagtaatt ttgaagtaat cagataacta ctgttctcat acacggcttc catggtgata   120

caggtaatac taatacatta catggaaagt gccataagtt agactgcctc gatggtttat   180

agtagttatt ataaattata gtacacataa atagatgact tctagcataa aaaataataa   240

tactttaacc aagtacacaa gaattattat actgcttaac tgatttgaaa ttctccactt   300

gcatgaacct ctttgacctt ttgtcatact cgtcttctta tcctcttttt ctccacgttt   360

ttttcccttc atctctttgc cttccagcca aaacttttg                           399
```

```
<210>      4358
<211>      563
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063e04a1

<400>      4358

cctcactctg ccaactaaag agagtagaac actttgagcg aatggctacg tttttcaattg   60

ggacacacac ttgtccatgt tccagcattt gcataattct agacttccac ttcatggctt  120

ctgcaccgtt gaatcatcac ccttctttgg ctcctcttcc tgcagaatct gtttcacagg  180

taccctcccc acgttgctcc gtcacaatgt attggcacgt gccgaagata aggccagaga  240

ccctacacct tcttcctttc agcctcaaca aagctcacag caacagtttc agaacttgac  300

accagaatct gggagttgtg atccctatg ttcactcgat gaaactagct cacaagagtt  360

tgaagacagc taccagccca agactgattt cctcaaagct gttgcaatat tagcagcagc  420

tgcaactgga gcactgacaa ttaaccattc atgggtggcc actaatcagg atcttgctat  480

ggcattgcta tttgtaatag gatatgcaag catcatattt gaagaatctc cagccttcat  540

aaaaagtgag tgggactgtt gat                                          563


<210>      4359
<211>      359
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063e04d1

<400>      4359

ttgtcgtcct ttttttttttt ttttttttttt ttttttttttt tttttatttt ttttagtgat   60

gtatggatta ttttttcttt ttttactttg gtttagaaaa gcttcccgga gaaatgaaca  120

acaacgacaa ccacagcgac agcaaaacaa ccaaaaaaac caagagagaa agaggcaaaa  180

aaaaaaaaaa aaaagaaggc gacaaaaaga aaaaaaaaaa gccaaaaagc aaaacaaaaa  240

gacagagaga gacacccaga gaaagggaaa gcagggacca gagggaggaa aaggggaaaa  300

cgagcgagga gacaagaagg cgaagcgagc acgaaacccc gggacggaaa cgcaggggc  359


<210>      4360
```

```
<211>      505
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063e05a1

<400>      4360

ttgatgtttc ggtggcgatg cttgctcgcc ctggtgcaaa catcttgctt ccaaggccag    60

gcttcccaat ctatgaactt tgtgctgcat ttagaggggt tgaagtgagg cattatgatc   120

tgcttccaga gaaaggttgg gaggttgatc tagatgctgt tgaagctctt gctgatcaga   180

acacagtggc gttggcgatc ataaaccctg ggaatccttg tgggaatgtg tacagttacc   240

accatttgga gaagattgct gaaactgcaa aacgggttgg aacaattgtg atctctgatg   300

aagtttatgg tcaccttgca tttgggagca agccttttgt accgatggga gtttttggct   360

ctactgttcc tgctctcact cttggctcac tttctaagag atggatagtt cctgggtgga   420

ggcttggttg gtttgtgaca catgatccat ctggcacttt tagagaacca aaggtagtcg   480

agcgtatcaa aaagtattct gatct                                         505


<210>      4361
<211>      542
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063e05d1

<400>      4361

cttgtgtagt atactagtag taaagggcca tttatttagt aattttactt ataagtgaat    60

tcactatagc tttacaattt tcttgcatgc ctttgataga aagattttat ccttctcata   120

ccctctccaa gagcagatgg atcagcagcg aaagtaatac gaagccaatc ttttaggcct   180

actgcagttc ctggaagaat gatcacagat tcctcctttg caagtttgaa acagaagtca   240

atatcatcac taatatcttc agaagtgaa aggtttaatt tcaccatcat agccatggat    300

ccttctggtt tgtaagggca aaaaatgcag ggaatatcct ctatctcttt acaacatata   360

tctgctgtat gcctcaaatt atcaatggtt ttctcgaaga aaatttcttc ggtatttgca   420

attatctgag gtacagcagc ctgcaagaag gttgctggac ctcctagaag atcaaaatac   480

tttttgatac gctcgactac ctttggttct ctaaaagtgc cagatggatc cattgtcaca   540
```

<210>   4362
<211>   585
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063e06a1

<400>   4362

gagaaaagga ggagcaggag gcatcaccgt taccaaacat ggtgaaaggg cgccaaggag   60

agcgtgttag actttacgtc aggggttcaa tacttggata caagaggtcc aagtcaaatc   120

aatacccaaa cacctcatta atccagattg agaatgtaaa cactaaggaa gaagttgcgt   180

ggtactgtgg gaagcgtatg gcttacattt acaaagccaa ggtaaagaag gacggaagcc   240

actatcgctg catttggggt aaggtcacca ggcctcatgg taacagtggt atagttcgtg   300

ctaagttcaa gtccaatctg ccgcccagat caatgggagc aagggttaga gtcttcatgt   360

atccaagcaa tatatgaggt tctcaggact cgtgagtcgt ggagcttgtt ttgtcagggt   420

atttgatagg aatttatatt atggtcttct tttctggtag ctctcgagca gggtagtatc   480

cttgtttagg atgaagagaa tgtaccgcat gttttttctt tattctcact gccatggtta   540

ttanggaggg atatgagtct caattcatta acggattttt ttcct   585

<210>   4363
<211>   463
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063e06d1

<400>   4363

aaggaaaaaa aatccgttaa tgaaattgaa actcataatc ctccctaata accatggcag   60

ggagaataaa gaaaaaacat gcgggacatt cttttcatcc taaacaaggg tactaccctg   120

gttgagagct accaaaaaag aaaaacataa tttaaattcc tattaaatac cctgacaaaa   180

caagctccac gacttacgag tcctgaaaac ctcatatttt gcctggattc atgaagactt   240

taacccttgc tcccattgat ctgggcggca gattggactt gaacttagca cgaactatac   300

cactggtacc atgaggcctg gggaccttac cccaaatgca gcgatagggg cttccgtcct   360

tttttacctt ggctttggaa atggaagcca tacgctttcc acagtaccac gcaacttgtt   420

ccttaggggt tacattctca atctggatta atgaggcgtt tgg   463

<210>   4364
<211>   480
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063e07a1

<400>   4364

cccctctcct ctttctctct ctttctaaaa accagaaaca acaaacacaa accgaaaagg   60

cgaaaggggt tttccgagtg agatctaggg tttccatcga ttcggagaga ggatattgat   120

agaacgacct caacgagcaa ggtcaggagg tggagtacta gaacatggat tcggtgcctt   180

cgaattcgca tggaaacctc gatgagcaga tttctcagct catgcagtgc aaacccttgt   240

ccgagcaaga ggtaagggtc ttgtgtgata aggcaaaaga aattttgatg gaagagagca   300

atgtccagcc tgtgaaaagt cctgttacaa tttgcggtga tattcatggg caattccatg   360

atcttgcaga gctttttcca ttggagggaa gtgtccagat acaaattact cgtttatggg   420

agactatgtt gatcgtggct attattctgc tgaaactgtt ancgctttgg ttgcccttaa   480

<210>   4365
<211>   506
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063e07d1

<400>   4365

aaaaacaaga ctacctatat tagaatataa ttctcacaag acgagtaaaa aatcataaat   60

taaaagatat gttcaaagca ttatcaatct acagaaaccc accccttaa caataatcct   120

aagttgagaa aagaaaagtc aagagagttg caaataaata gaaaaggaaa aaaagggga   180

aaaaacatta aaactgatac attgcaagct ggaatgatac acatgcccac aatagcatcg   240

cctgctgctc agcttccact tggaaagatt cagttataat tcaagtaaac aacacatcca   300

ccgaagccta acttcgaaaa tataagtatc aatatgattc atggctctga tttggacaag   360

1832

gagatgagct tgcacattac tgcagggcat tagttgctgt gctggtaaca gcaactcaac   420

caaaatagta tcataggaag taatcaggtg ttctcctggt tacatctggc tctcccctcc   480

ttggagcttg ctcaaactga atgaat   506

<210>   4366
<211>   270
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063e08a1

<400>   4366

cacaacggat cgtgatggat catcttcaag accaatggcg gacaagaaaa agggcaggtg   60

ggaggaaggc taactctgaa gcaaatgatg taaagccatg tgctatggat gtggacaagg   120

caatggtatc ttatctgacg tctggtacaa agtcaactga aaaagatgat tcagaggaga   180

ctcccaagac aaaagtgcca aggagactca attcacgaac tgaagctgag tctaatgcga   240

aggaatatgg acgaaacctt gctggcttac   270

<210>   4367
<211>   364
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063e08d1

<400>   4367

aagccctaag caatctaaaa acgttaattg ggtggataga cactagtaag tagacattag   60

tcaacctgtc agcatcaggg agtgccaaag cattcgctaa attaagaaag ctagcacaat   120

attttcaggt gtatacctta aaatagcatt catctagtct actaaagaag atggaagagt   180

aactagagat actaacccat actacaacta aactagccta actgataact ggagaaaata   240

atgctagcaa catgaagatg attaccacaa cgactcagc tacttgatac acggactaaa   300

tgcattcgaa cactctggcc taaggaagaa aaagttaat gctgtaagca caagacaggc   360

accc   364

<210>   4368
<211>   487
<212>   DNA

1833

```
gaagccagcg agtgagtgag cgagccaggt agggttttcg gtgttcccct ctttgtgttc    60

gttcgcgacg atggggtcca tccccgatcc aggcgagttg agcgagttga ctcagccgag   120

cttcgacgag ttccagcgcc aaacctctct catgaccagc tgcaccctcc tctggaagga   180

gctctccgac cacttctcct gcctcgagca agacctcaac cacaaatccg aagccctcaa   240

gcgcaagatt cacaccctcg acaactccac ctcggactcc ctccgcctcc tcgaccaccg   300

cgaaacctct ctcgacgcca ctctccagat cgccctccgc acgctcgaca cgcgccgcac   360

cgctgctctc tccgccctcc tccacgacgc tgacgacacc tnccccgacg gcgaggtcga   420

tgacaccgac ggcctcgtcc tcaagctcaa gtccttctgc ctacgcatgg acgcgttcgg   480

cttcttc                                                             487
```

```
ccttcaattc gatcccaaga taagcatata atgtaaacac agtaagtctt tctacaacta    60

aaccgaacag tggtagttga gtttctgatg tttcttggcc gtcctagtta ctttccacaa   120

tcacctagta ctatgggatc aacattagaa atacaacttc tccccatgcc gagcaggaag   180

tgggacagta gttataatta acacacagaa ctgctaccgt taaacggtta gtaattacaa   240

acaacattgc aaaagtaaat tggatcaagg tcgtcatatc agtggttacc atcttcaaag   300

gttgtcattt ctatcggtag taagcctgct gataagtggg agccaaaaca tttccatagc   360

cgccatatgc atgaggatag ttcatgggag ctgccgggta agaccctgca atagctggtg   420

ccggctcggg tgaataagca gcataaggat ttgctggggg acttct             466
```

<212> DNA
<213> Glycine max

<223>   Clone ID: jC-gmfl02220063e10a1

<400>   4370

attaattgca agaatggcac ttcgttgctt ggtgatgtcc ctttctgttc tcttcactct   60

tggtcttgcg agagaaagcc atgccagaga cgaagatttt tggcatgctg tttggccaaa   120

cactcccatt ccaagttcat tgcgagatct tctaaagcct ggccctgcaa gtgttgaaat   180

cgatgatcac cctatgcaaa ttgaagaaac acagtacccg aaaaccttct tctataaaga   240

agaccttcat ccaggcaaaa caatgaaagt acaattcagc aagcctccct ttcaacaacc   300

atggggtgtt ggtacatggt taaaggaaat taaagacact actaaagaag gatatagttt   360

tgaagagcta tgcatcaaga aagaagccat tgagggagac gagaagtttt gtgcaaaatc   420

cttgggaaca gtaattggtt ttgccatttc aaagctggga aagaacattc aagtactttc   480

aagttccttg gtca   494

<210>   4371
<211>   517
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063e10d1

<400>   4371

cacgagataa ccactttta ccatatatat atagagagag agaatacgaa gcacactgat   60

cacaggatga tgctctcttt aagtagggaa gcagatctta tcagtacaca taggtaggtt   120

gaaattctag ctctagcaat ctagctagag aaggtagtac ttgcacaaca cacagcacat   180

gataatttat tttatacaca atctcattct catggtgctc aagatgcatg gactaattaa   240

gcaacaatgt tggtctgata ggcagtgtcc acagataaat tgggtaccca taaaatggcc   300

ttgcttccaa ggaaatggca aacagggtta gttccaggat caactcccat aagttgatga   360

agcatttgat gattcattcc agaagtattt gagtggcaaa tagcaagtgc ctgagttttg   420

gttccatcac cagccaccaa tggaaccatg aaagctgttg tttcacggac ttcatggcag   480

taaaatactg cagttctgaa aattagccta tgacaca   517

<210>   4372
<211>   510
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063e11a1

<400>   4372

ttgagctttt cttttctttct ctgctctctt ttctttttagg tttccactct cacacactct   60

ccctcttctc tttctctgca ataatctctc ttctcttctt cactctctca actcctgcca   120

aaccccccatt tccgcagttc ttaaatttgg agtctgatgt ctccgccatt gctggttacc   180

gaagatgaag ggcagtgcca tgcctcgatg gtagcatctg catcttcacc atccctgaac   240

tgtttctccc taaatgaggc cggatttaaa gaatgcaatt acctgggatt gtcagattgc   300

tcttcggtgg acagttctac tgtcccgaat ttgtctgatg agaaaaagga gaatctgaat   360

ttgaaggcta ctgagttgag gcttggcctt ccgggatccc agtcacctga aagggagaca   420

gaactnttct cgttgagctc aacanaactt gatgagaaac cactgttccc tttgcttcct   480

acaaaggatg gaatctgctc atnggctcaa   510

<210>   4373
<211>   521
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063e11d1

<400>   4373

gattgcaaca tacattcaac ttatccaaac aaacatgttc ctataaagat tacaagctcc   60

acaattacta atattcaagg tagcttcata aggtattata gtagaaacaa atgtaacaca   120

aacaaaagac caagacacta ttatgatact tgtaaccata gacaacatct tgaatagcag   180

ttaaccatca aaacccggca ttcagtcatt tatatcataa gttctctttc cacactcttc   240

atgttccaat accaactagc acctgctcct ggatttttcc atggccctgg gagctaagcc   300

aatggcatca gaacccttca tgattttcag tcttttgcat gtgtcaatga acatatccca   360

tggtacatct ccgacaagca tccagtcacc atctttatct tcataagtga gtacatattc   420

tgaaccatgc aggaggtcct tcagcttgct ctcactcaac atttctcttc ctggagctcc   480

atggaacca cattgaccta gagtgaaaca gctgaacatt t   521

<210>   4374
<211>   465
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063e12a1

<400>   4374

ttctttttc tctttagcgt ttggtaaggg tgcctatatt tattctgcat tcgtcctcga   60

tccttaggcg gagatttcaa acacaacttc gcttattaaa tctcttcttc caattccttc   120

tttcattcat tcccaggctg agatggcagc ggcaccagca gctaccttca ctattggaac   180

caccggttcc ctaggccaaa gaggaaactc gcttcctcaa ttaaagtctt ctgggttgaa   240

attcaactcc cagaatcatt tgaagagctt ctgcggcctc aaggccatgt catccgtgag   300

atgtgagtca gattcgtctt tcttggttac ataactggtg ctgctctgcg ggcgtctntt   360

gcatccaagg ctcanaagga caacgaccaa aacttcaact acaactcgca gcctcaggct   420

tcgtacaaag ttgcaagtct tggtgcttgc tgagggatag gtcag   465

<210>   4375
<211>   449
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063e12d1

<400>   4375

caaaaacaac ttttacgttt tccaattcta cattataatg gtgacatctt tgaagatttt   60

cgaccaaaac ctaagctctg tatagagaac agaaatggaa gctccgtccc gttctactaa   120

caaaactgga agtagaattg atagttgatc ctatagaaag tttgaatcct aagttctgga   180

agcagtaaag atgctacaac aaatccgcaa cctaagttct ctaagtagta tttgggctaa   240

aaataaatcc ataacccaag aaaccacccg ttgaaaaaaa attaagcagc aacagcttgc   300

ttctgagcaa aagcaatccc cttctctatg ctggccatga gttctggctt aagtgattcc   360

aaagccttct gctcatagtc agtcaaccct tggaggtcag atggaattaa tgcctaaact   420

cctttcctac caagcttcac ccttgaagc   449

<210>   4376
<211>   318
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f01a1

<400>   4376

cgccttggct gtagtatgat tttgaaaccc ccacccgttc ttatggtcca tggttcctcc   60

agcgttctat gattgcgagt cccatttcat taggggatga tgatgatgcc catgaacgcc   120

ataactgtca cgctactctt ggaaagagtc cagagccatc actgtcgtgg agtggctcta   180

tagctcgtta tacctttcgc atacaccagc ttcaactatg ctattcaaac cacagatgtt   240

atcttgtggc cgctcttatg tgggtcaatt gcttgaaccc tgccacttcc gtaccttggc   300

aattgcagcc ctccagtt   318

<210>   4377
<211>   385
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f01d1

<400>   4377

gcaaaaactg gttatgctac accaatctct atctattatg aagtatatct acatgcagaa   60

tatgaaggcg gacttaacat actttcaata ttcaatcttt actgtatggg ctatgataga   120

tggacccgta cactatggca catgttacat tcatcatacc ggaatgcatc aatgatcaca   180

tactactaaa atttgcggat gacttgaaaa ggctacttat agggatataa agatctcgac   240

ttgcttgtac gcttgcaatg aactgaacgt gaccatagat ctcgagatca accaatgtcc   300

gtggggattg cactgccttg gctgtgggct ggacatcagc tatatttgac ggagcattgt   360

tatccacgaa agccatacac agaag   385

<210>   4378
<211>   513
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f02a1

1838

<400>   4378

cacatacacc aaaaccacca aaggttgagc ctactcattc accaaaacca ccgaagaaac   60

caccatgccc accaaaggtt aagcctccac atgcaccaaa accaccaaag gttgagcctc   120

ctcatccacc aaaaccaccg aagaaaccac caagcccacc aaaggttgtg cctcctcttg   180

caccaaaacc accaaaggtt aagcctcctt attcaccaca tacaccaaag aaaccaccaa   240

gcccaccaaa gggtaagcct ccaccaaaac caccagttaa gccaccatgc ccaccaaagg   300

ttgagcctac tcattcacca aaaccaccaa tccctaagat gccaccactt gctccagttg   360

caatctacaa gaagccactt acaccttctt gctacactcc ctaagttgcc accacttgat   420

gcagttgcaa tctacaagaa gccacttcca cctgttcctg cactccctaa gtttccacca   480

cttcatccag ttccaattac aagaaccact ttc   513

<210>   4379
<211>   482
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f02d1

<400>   4379

gttgctatta aatgagcata aatgaactct tattctttga agagatatta gaaaacttaa   60

ctatccaatc acaatgcatt tgtatacaca tgaaattaat taaaaataaa tacaatgatc   120

tgggttgtct aacttgcccc gatgatgatc ttcattcgag aacaacaata ttgatcacac   180

tcatacttaa catcacttta aacttcttaa tcatattgct ctattatagt ttaaattgta   240

tttatattct caccctaggc tcatcacatg ccctatcctt ccaaggcttt attagcaaca   300

aatagacttc ctcaatatac ttgatcatac ggaaagcaca aaaaagaaga cagaaaaaat   360

gcatgcatat tttgcagacc caacaagagt tatgatttac ctctgcaata ttaatatata   420

aagcctaagg atgagaggaa gaaggtggta ctgggaacca tttggggtga tggaaaaagt   480

gc   482

<210>   4380
<211>   419
<212>   DNA
<213>   Glycine max

1839

<223>   Clone ID: jC-gmfl02220063f03a1

<400>   4380

tggctttccc ctccaaggcg atgactagca ggttctggtg cagcgtaaat cgaatgcgag   60

agttttgaca ctaaacagga ctaaacagtt gaatgccctc tcttttata tggtttctcg   120

gctacttgaa attttttctg aagatgagaa agattctgat attaaattgg ttgtcgtgaa   180

gggaaatgga agggcttttt gtgctggtgg tgatgttgca gctgttgctc gtgatggaag   240

taaaggtgac tggaggtttg gtgcaaattt ttttcaaagt gaatttaaat tgaattactt   300

gatggcaaca tatagtaagc cccaggtttc aattcttaat ggaattgtca tgggaggtgg   360

tgctggtgtt tctgtacatg gaagatttcg tgttgttact gagaatacgg tctttgcat   419

<210>   4381
<211>   516
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f03d1

<400>   4381

acctggaaac tacatttatt agagtatcat actctgattc tcaacggtag acttcactag   60

ttttaaaatc ttatcaattg taacggtagc aattcataaa ctgccataca ttgaaacatc   120

caagaatcaa ttgaatggag caatacgtgt cttccatact ttgggcttga aaatatgaga   180

atgatgatgc tttacagctt tgaaatagca tatgtaggca gattattaaa ccttttagga   240

agctccaaat ctttccatcc tttatcatca agtttagaga agtaacgatt aacatcgcta   300

tcactaagaa gctccaattt ggaaggttcc cactttgggt ttctgtcttt atctatcagt   360

atagccctac aaccctcgaa gaaatccttg ctgtagtgtc cttttagaat atgacaaaca   420

actctataat cagaaacaag gcattgtcca acaccttgga gccttccttg tctaatcgat   480

ctaagaaaga ttttaaggct tgttggagat gctttc   516

<210>   4382
<211>   571
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f04a1

1840

<400>   4382

tgagaatgaa actagcaaga cccctgtggt ttattcagaa caatgctcta ttggtaggga   60

tattaattct actcgagttg ccatcttgag agatagggaa aaggatcgca gtgatccaga   120

ttatgatcgt aactatgaaa ggtatgctag gagtattcca acttcttctg ttaacttgat   180

gccttttaat ttgcaacaag ttcgacatcc atttgtgcag tatgataatg cttttaatca   240

gttgagtcag atgtcacaaa atcaagcttc acttggctat ggacctcaac caagccctat   300

gatgaatcct tttggtgtca cagggttgaa tcaggtgcct agggatgctg cttatgtaca   360

gtggccaagt gctgcagtaa tgtatgcaca ttcatatgac caatttagac aagctgtttt   420

ccaggctcca tttggtcaac gcccattgag tttcgattat tcgcagaatt actagatgac   480

gtttgggaag cagttttcca tttggctgca taagttattt tagctattaa ggatttcaga   540

gttagatata cattttctgg actggtatag a   571

<210>   4383
<211>   588
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220063f04d1

<400>   4383

cacatataac tcttcatata cttcaaatcc aagtactttc actacagtcc tgtataaaaa   60

tgtcgccagg aaataccaaa aacgccaaat acttgctacc accatcaaaa cttaaaaacc   120

agaataggaa acaaggatct ataacagtac agaaaaatta tatctaactc tgaaatcctt   180

aatagctaaa ataacttatg cagccaaatg gaaaactgct tcccaaacgt catctagtaa   240

ttctgcgaat aatcgaaact caatgggcgt tgaccaaatg gagcctggaa aacagcttgt   300

ctaaattggt catatgaatg tgcatacatt actgcagcac ttggccactg tacataagca   360

gcatccctag gcacctgatt caaccctgtg acaccaaaag gattcatcat agggcttggt   420

tgaggtccat agccaagtga gcttgatttt gtgacatct gactcaactg attaaaagca   480

ttatcatact gcacaaatgg atgtcgaact tgttgcagat taaaaggcat cnaagtaaca   540

gaagaagttg gaaatactct agcatccctt catagtacga tcataatc   588

<210>   4384
<211>   476
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f05a1

<400>   4384

cgtggtggta tcagcaaggc ttcccgtgtt atcaacatta gtgaagatat ctattcagga   60

ttcaattcaa ccttacgtca aggaaatatt acacatcatg aatatattca ggttggtaag   120

ggaagagatg ttgggctcaa tcagattgca ctatttgaag gaaaagtttc tggtggtaac   180

ggtgaacaag ttctcagccg tgatgtatac agacttggac agctttttga tttcttccgg   240

atgctgtctt tctattttac aacagttgga tactactttt gtaccatgct aacagtgtta   300

actgtatatg cctttcttta tgggaaagcg tatttggcac tatctggtgt tggtgaaacc   360

attgaagaaa gggctaggat aactaagaac actgcactga gtgctgcttt gaatacacaa   420

tttctctttc aaattggtat cctcactgct gtgccatgat cctgggctca ttcttg   476

<210>   4385
<211>   534
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f05d1

<400>   4385

aaattcaaaa ctgatagtgc attgcattaa acccaatact acatgacgat ttaaatgaca   60

tacactagaa aattgatgat acaactattc acaatgctga cgattttttac agaaatctag   120

gcttcctaca agaagattta ccgactcacc cccgcaaaat ttaaaagaca ccatagattg   180

tatctcgttt aggaacaagg cctgagccaa atacaactat atcccagtat tgggattgtt   240

cccagctaga ataagagaaa tttctaaccc tcggctaaaa gcctggttaa acattaggcg   300

agtttggaat gttgatacaa atgggaacca cgaaaagaag gcaatgggta caaagatgag   360

cattcccata ccagcatcat agaggcgagc aattgatcga acggatttcc atagtccgag   420

cctcttcatc accggcttcc aggcagcagc aattgacaga attccccaac cagtaggaat   480

gaaagccaac atagaagcca atatgtcccg taaagacagt tggtcaaata tact   534

<210>   4386
<211>   554
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f07a1

<400>   4386

cgcttgaggc taggctacct ctgggacatt tgtgctgcta gttcatatat ttgcggctga   60

caccgagaag gaaagcagga aaacaacaaa aaggagcaga tgggtagctc aggtttctca   120

tggaaattgg cggatcatcc aaagcttcca aagggtaaga ctgtggctgt tgaggtattg   180

gatggttggg gagaggccac acccaatgag tacaactgca tccacaaggc tgaaacaccc   240

tgcatggatt cacttaaaaa gggctgctcc tgaacggtgg agattggtca gggctcatgg   300

tactgctgta ggacttccaa cagaagatga catgggcaat agtgaagttg gtcacaatgc   360

ccctggagct ggtcgcatat ttgctcaggg tgctaagctt gtcgaccctg ctctagcctc   420

tggaaaaatc tttgatggag aatgtttcaa gtacatacag gaatgttttg aaaatggcac   480

attgcatctc attgggctac tgactgatgg tggagtccac tccgacttga tcagtgcagt   540

tgttgcttaa ggag   554

<210>   4387
<211>   286
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f07d1

<400>   4387

ccaggaaaaa gcgccgaaat acccagaaag gggtacacca ggtctggaaa agaaaaacga   60

gaaatgctga agatactaga acaaaaaccc ccccgattgg gcaggcggca aacacttgag   120

tgctttaggg ggacacaaag gttcacccca tttttgccaa ccttaaaaaa aaaaaaaacc   180

tacttcgggt tacaagccat gaaaaactct ggccctacaa gcaccgaata aactggggca   240

atcaacacga tcaaaggtct agcccaggaa acaccacagg gcaaat   286

<210>   4388
<211>   485
<212>   DNA

1843

<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f08a1

<400>   4388

ctcggaatac agctcgagct gtgtcgttca cttgtttggt ctctttcttt caaccttaac   60

ccttccaaac caacacatat aaaaatcaac cctctcttct tcttctctct ccgcgggttg   120

agttgaactt caagaacctc ataaaaccct ttctctctct ctctctctag atctgttcaa   180

atccgaaacc atttccgctc taatttccaa gagcaaaccc taatccgctc tctctgtatg   240

atactagatt tcccctcctc aaaggcgtcg ctttgtgtcg atttgtaaat tcattcggta   300

gtttaggtta gaatttttgc gtcaagtctt tagggttctg aatcggtgag atgaatcaca   360

acaacagcaa caacaataga gcgaggtacc ctaccgggat gggacttgag cgcggtggtt   420

tcaatccgaa cctgagccag aacccgaacc agaaccagaa cccgagcctg aaccaagatc   480

atcac   485

<210>   4389
<211>   291
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f08d1

<400>   4389

aatcttcctt aaaccattca attttaaaac tccattctta aaaacttgta ttgacggatt   60

aattctgcaa ttgtaaaacg gaaccccaaa ctgaccccat tacctattgg cctaataaag   120

cgccatttta acctttttaa aggcttaaac agggttaagg gtctccaaaa cccagattat   180

atgtgagcgc tctcatatgg gggatacccc cattttgaca gagcatactc tcatgcccgg   240

ttgcaataat acacaatttg ccactagctt cttagcagat cttatcaccc t   291

<210>   4390
<211>   563
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063f09a1

<400>   4390

```
gttcctgaaa acattttatc cgctagacgt cgtagagaat tgagaattct aatttgttta    60

aatccaaata atataaatag tatgcataga aacacaatat tttataatcc aaataaagtc   120

caaaatggtt ttccactttt gactaaaaaa agaaaatatt ttgagaaaga taaaaaaaaa   180

actaatgaat ttcaaaattt ttctttggcc aaaatatcga ttagaagatt tagcttgtat   240

aaatcgatat tggtttaata cccataatgg aagccgtttc agtatagtaa ggatacatat   300

gtatccgcga atgaaaattc gttaatccaa atttgtcttc tatttaccat atttatatgg   360

taaatagaag acaaattaat atctatatct atctatatag atagatatag atacataaca   420

taaataaaga cacgcattat ggtatggcat tgatactaat tcactgatat ataccttaga   480

taaaaaaaga atccacaaaa ttatgttttt tttaagtata ccattttttta tggtgaatct   540

attaaaaaaa gctncttat atc                                           563


<210>     4391
<211>     591
<212>     DNA
<213>     Glycine max

<223>     unsure at all n locations
<223>     Clone ID: jC-gmfl02220063f09d1

<400>     4391

ctgtgtaaat aacccaatat aggttcacaa tcaataacat cctcaccgtc tagagtaaca    60

ataagtctaa gaacaccatg cattgatggg tggtgaggcc ccatattgac tatcatgaag   120

tcctttcttg tagttgagat attcataggt ttttcctcga tttatttttt tatgaatcgc   180

ttaaaaaaaa aagttcatca aaattcaaga tctaataaat cgaataattg agaattactc   240

ttcaatttaa cgaatttgtg actctcgaat atcaaactga tttattaatt ttttataccg   300

tattctatct ttctttgaca aataagacag caatctttgt cgttttccca aaattttacg   360

taaacctctt tgagataaat agtcttttcg gtgcaattca aaatgtgaag taagtcttcg   420

tattctatcg gtaaatttga atatttgaaa ttcaaccgat cctgggtttt tttctttttt   480

ttcttgtgaa ataacaggta taattgaatt ttttaccata aaaaaattaa agtntttccc   540

ttctcttcgc ttttactttt gatagatatt ttgattgatc agaatagtaa t            591


<210>     4392
```

1845

```
atttctcagt catggattct ctgtctcttc ttctctcccc ttatccactc tccaccaaaa   60

cccacaaatt cagcaccttg aaacccttct ctcatttctc aaaccctaaa ataccacctt  120

ctcaacccca ttcaccctct ctttctgcac tccaaacacc ttctcttaac tccctccaaa  180

acccattaac aaaacctttc ttatcattta ccatgctcaa cctcttcact ccacttccct  240

gcctcgctga cgtagcctcc gacgacgccg gaaaaataaa cctggaatcg gtgctggttt  300

ccatcgacaa cttcttcaat cggtacccgt ttttcgtcgc cggttgcacc tttatttggc  360

tggtggtgat tcctctggcg gaagagtact tgaagaagtg caagttcgtg tcggcgattg  420

acgcgttcag gaagctccgc gatgacccga atgcgcagct gctggacata agggacgaga  480

agaacgtgag gtttctggag tcttcgaaat tgaaatgttc gagaaggaag tgcgcanngt  540

cgagtcgctg aggatgggaa                                              560
```

```
aagagtatat atactaaata tctagattga ttctgtttgt acagtgttta tggattgcat   60

gctttacact ctataaaact caacaaaaag gttgaaaaag aataattgta agtttagaaa  120

taaacgattt cacagtcacc aaattgtatt tctgtcttta cagaaatcat ttctgccaaa  180

cagatgtcag ccgagcatgg tataacaaac agaactattg tggctttgac ggagttggag  240

atgatggtgg cttcaaatcc gggtaattgg gataaggaga ggaggatgct acagaaccag  300

ttttcacttc tgaaataaac tctacagagc ttttcacatg accatcgtct gttgtttggt  360

tttcaacaga agatctatct tgggttaagg aactattatt gttactatca ttttgctgga  420
```

tggctccatt tncatttgna tngagtttct ttgaagcttt taccccttth cttatatgca   480

cagaaggggg caaaagggaa tcc   503

<210>   4394
<211>   542
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f11a1

<400>   4394

atcccttctc aagccaccga agcctcactt tttgaaatta cttgcataga tagataatca   60

tggctatgat gaaacgtgct gcttcctctg cgcttcgctc tcttattgcc tcatcctcca   120

ccttcaccag aaaccttcat gcctcaggtg aaaagaagaa gattgtgggg gtgttctaca   180

aagggaatga atatgctaaa ttgaatccaa attttgttgg atgtgttgaa ggtgcattgg   240

gaatacgtga gtggctggaa tcacagggtc atcagtacat tgtcactgat gacaaagaag   300

gacctgattc tgaacttgag aaacacattc cagatgcaca tgtcatcata tctactccat   360

tccaccccgc ctatgtcacc gcagaaagaa ttaagaaagc caaaaatttg gagctgcttt   420

tgactgctgg cattggttct gatcatgttg atctcaaagc tgcagctgct gcctgtttaa   480

ctgtggcaga ggtcacagga agcaacgttg tgtccgttgc ggaggacgaa ctcatgagaa   540

tc   542

<210>   4395
<211>   512
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063f11d1

<400>   4395

ggagtgttcc ttaaactttt atttctgaga tcaattaaac gagttcaaat tcaacaaagc   60

aagtgcatta cataattaga gtgccttcta gatctttatt tgctcatatt cattggcctt   120

aaaattggaa gattcaaagg ccacattgac acacaccact tcatcggtat tggctagcaa   180

gttgaccctc cttcacaatg tagttttgtt ctggaaagtc ttcacccttg aagtgcctat   240

caagcatgtc tttgacacca gcagcataac gtaactgtgc atcaatggtg gtaccagaaa   300

1847

tatgaggagt catggcatgg tttggcatgt agcgccatgg atgatccttt ggagctggtt   360

gtgggaacca aacatcacca ctataacctg caacgtggcc actggagcaa gcatcagcaa   420

ttgcttgagt gtccgcaatt gcccctcgag cattgntaac aatcaagaca cctttcttgc   480

acttagcaat tctattttg tcaaacaatc cc   512

<210>   4396
<211>   364
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f12a1

<400>   4396

ttttggactt atccaaagac ctacagtcca tgacccattt tgtcaagtaa tgcttcgtgt   60

tggtgattta gagcgctcaa ttaagtttta tgaaaaggct ttgggcatga aggtggtgag   120

gaaggttgat aagcctgagt acaagtacac tatagctatg ctcgggtatg agaggagca   180

cgagacaact gtgttggagt tgacatataa ctatggtgcg actgaatact ctaaaggaaa   240

tgcttatgca cagattgcca ttggtactga tgatgtatat cagagtgctg aggtaagtaa   300

ccaagtcata caggaggtgg agggaagatt actcggcaac cacggccaat cctgtccta   360

atac   364

<210>   4397
<211>   506
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063f12d1

<400>   4397

gataaactag tagattaatc ataggtagca tgcagaatga ggtttcaatt gcggttttaa   60

gtcaacaaaa gaacccataa aagcaagaaa acaagttgat gactggtact gatacaaaac   120

gcacaatgat aaaatgcgag acaacttatt catacaaaag cagcaggact acttatttca   180

tataaagctt gctcttcact tcagttcttc caaaaaatca acgttgtcaa ccaagacagt   240

tttccatcca tctggatcta aaacgaagt ggttttgta ttaaggccag gaattggccc   300

tggttgccga gtaatcttcc ctccaacctc ttttatgact tggttaacta cctcagcact   360

1848

cttatataca tcatcagtac caatggcaat ctgtgcataa gcatttccct tagagtattc   420

agtcacacca tagttatatg tcaactccaa cacagttgtc tcgtgctcct ctccataccc   480

gagcatagct atagtgtact tgtact   506

<210>   4398
<211>   474
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063g01a1

<400>   4398

gagagtgtgg gagattgcga tgcccatcgt tttcaacata tggtgtcagt tcggtgtcaa   60

ctccgtcacc agcatgttcg ttggacacct cggcgacatt cagctctctg ctatctctct   120

cattaactcc gtcattggca cttttgcctt tggtttcatg cttgggatgg ggagtgcaac   180

tgagacactc tgtggacaag ctttcggagc tgggcaggtt aatatgcttg gtgtttatat   240

gcaacgctca tgggtgatat tatcggtgac cagtatcttg ctcttgccta tatacatttt   300

tgccgctcca attttgaagc ttcttggtca acaggaagat atagctgatc ttgcagggag   360

tttctccatt ttagtaattc cacaatttct ttcacttccc ttcaattttc caacgcaaaa   420

gttccttcaa gctcagagca aggttaaggt tattgcatgg attgggttgg tggc   474

<210>   4399
<211>   457
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063g01d1

<400>   4399

gaaaaaaaga ctttgagaac ttgactcgag tggaggtgga agatatacaa gattatgcag   60

aagccactat cttatcaact ccaatgtctt gtccactcca tatccgcatg cgttcagctg   120

tttgttccac ctctttcttc caattggttt tgtaaagtat caacaagagc agcaaggtct   180

ggagaacaat tccacatatc ataccacccc aaagtccctc aaccccaaa tttgctgtat   240

aaccaagaac gaaccccagt ggaagcccaa ataagtaata caacctatg ttgatgtagg   300

ccaccagggc ttgccaccca ccttcaatag caacacctga aaccactggt tgaacactgt   360

ttagaaccat tgtcacagaa aggaggtatc ctagtttcgc aacggcctta tgcaaaacct   420

cactggttgg aaaaataatg gcataataat ctctagt   457

<210>   4400
<211>   547
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063g02a1

<400>   4400

ttccatttat agttgcagag caagaagttt gttcggagat ctgcaagctg gaaaatgtga   60

ttgaggaagc tgaaaccact gatgatatcc agataaaaaa ccaacatatg gaagaaaaga   120

ctcaagcttt ggatttcttg caagaaatgg gttggcttct tcatagaagt catgtgaaat   180

ttaagctagg ttccatggct cctttccatg atctcttcca attcaatcgg ttcgcttggc   240

ttgttgactt ctccatggac catggttggt gtgctgtgat gaagaaactc ttggacatta   300

tatttgaggg tggtgttgat gcaggagagc atgcctccat tgagcttgca ttgttgaaca   360

tgggtcttct acacagagct gtaaagagaa actgtaggcc tatggtagaa ctactgttaa   420

gatttgttcc agttaaaacc tcagatggtg cagacagtga aatgaagcac gttgccgaag   480

cccctgacag attcttattt agacctgata ctgtcgggcc agctgggttg actactcttc   540

atgttgc   547

<210>   4401
<211>   499
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063g02d1

<400>   4401

ctaaaataat atattaagaa aaggtggaag cttacagcag aaaacacctg atatacaaca   60

ttacattgcc ccatactcta atgattccca gttgaagggc tggaagacat aataaactct   120

aggtgagctt ttgaagagca aagctacaca gacacacaca actgctatgg tcaccatgga   180

gagcatgact ggcctataaa ccattgctgt tttcatgcca ccataagcca ccttctgctg   240

gcatgcccta cattgacggg gcattgctgt ggtttcaatc ttctcagtct ttaagcttgg   300

```
aactctacat gtcctatttc catctgattg cttctgcgtt gtgttactat ctacaacagt   360

tccagggata tcaaccaaat gttgtctttc accttttttg atggtcttgt tctggactag   420

ttgaatgtaa gagtaatagc ccctaaggca agcatggtcg ttaggggtca aacctgtact   480

gtcccgggca cttttccat                                                499
```

```
<210>      4402
<211>      452
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063g03a1

<400>      4402

aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaagaaaa aaagaaacga   60

aaggggaata aaaaaacccg aaaaaaaatt caattccgag tctgggcggc ccgctacttg   120

gggtctttttt accccgggat ttaattctgg cccggtcctt gctgggggcc tcctttcccc   180

tatgggggcgt tgctttatgg ttggcgggcc ccctggcatt cgttgtctcc tgggggaaat   240

tttttcccgc tgccatttcc ccccaacttc ctatccgtga gtctcattgt tcaacccggg   300

ggcgcttcat gcggggggctc cccttcttac ttgctttgcc ctcactgccc cctttccagg   360

ggggtaccct tttgtgccccc tcggttttat tgattggtcc cctccgcggg gggaggcctt   420

ttgtttttttg gcccccccggg aggtttttcct tt                               452
```

```
<210>      4403
<211>      451
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220063g03d1

<400>      4403

agcattatca acatacacca acaaaataaa atgcacttgc acagcaaaag catattaggt   60

cattctccca gctaattact ttgtgcaaca caaaataata gcgagtttac agaaaaactt   120

tgtctttttg catttatttg ttggcaggag tcgggaggag acgaactgga gctctaaaag   180

cataagccta aatgcatatt taagtaccga aacaatactc ccattgtggg aactcggtac   240

cttctggagc actgccttac accttggttg atcccacttc tttccaatca gttgatagca   300
```

```
ctgttccatt tgactccaag aaagacttgc tcattgctct cctcatgtcc tcatctgcat    360

tctggtacat atcacggaac gatttaactc gaggagcatc accatggagc tgttcatttt    420

gtccgctttt ttcacttgag ctaccaactt a                                  451


<210>      4404
<211>      580
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063g04a1

<400>      4404

ttctgaattt gaatggaaac acgtgctagt ggtgatatga agatggccat agatgatgct     60

ttgaatggct tctctcctgt ctccacccct aggattttct ggaaatcacg aaggagatca    120

gctagcggga ggaatttaga ggtatcagaa gatactgcta ataaaccacc cagcaagcag    180

gaagatactc ctccaccttc tagtgaggag gtgcagaaca cgactccgat ttctgagcgc    240

cgaaaggctc tgtttgaacc tttagaacct ataatgaata ttaatggccg acgaccctcg    300

gccgagtctt tacttcctcc tcctgacttt gagtctgcaa actatccgaa gggctggctg    360

attggcaaga agagaaaact cgttaatgtc gatgttgttg aaagcatgag aaggattgcc    420

atccaagaaa tgaacagaaa ggacagggaa attgatgggc tgaatgaaca gctggaggag    480

gattcacggt gtctagagca cttgcaactc cagcttgtgg atgaaaaaag caaacgcgct    540

cgagtgcaaa gagaaaatgc aatgctgcaa gaacaagtga                         580


<210>      4405
<211>      524
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063g04d1

<400>      4405

gatataaacg aatagtttgc tcattgcggt ttgatctatt tccccacaaa tattaatata     60

tgcactctat ttttataact gcagagacat ccgacatgcg cagccaacta gacatgacga    120

acaaaaccta caaaaagaat ttaatacaca caagcaaaca cacacacaca cacacacggt    180

ataataataa actttaaggt tcatctgggc cttcatctcc catttgttct gcttcttgca    240
```

1852

```
acatgttcat aagcatgttc acttgttctt gcagcattgc attttctctt tccactcgag    300

cgcgtttgct tttttcatcc acaagctgga gttgcaagtg ctctagacac cgtgaatcct    360

cctccagctg ttcattcagc ccatcaattt ccctgtcctt tctggacatt tcttggatgg    420

caatccttct catgctttca acaacatcga cattaacgag ttttctcttc ttgccaatca    480

gccagccctt cggatagttg gcagactcaa agtcaggagg agga                      524
```

<210>   4406
<211>   494
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063g05a1

<400>   4406

```
atcatcacac acacatacta agaagcaaca attcttctac aatggatctc ctccttctgg     60

aaaagaccct cataggtctc ttcctcgctg cggtggtcgc catcgccgtc tccaccctcc    120

gcggccggaa attcaagctc ccaccgggcc cactccccgt cccaatcttc ggcaactggc    180

tccaagtcgg cgacgacctc aaccaccgca acctcaccga tttggccaaa aaattcggtg    240

acatcttcct cctccgcatg gggcagcgca acctcgtcgt ggtttcttcc cctgagctcg    300

ccaaagaggc tctccacacg cagggcgtgg agttcggctc ccgcacccgc aacgtcgtct    360

tcgacatctt caccggaaag ggccaagaca tggtcttcac cgtctacggc gagcactggc    420

gcataatgcg ccgcatcatg accgtnccct cttcacccac agggtgtgca acaataccgc    480

catggatggg aatc                                                     494
```

<210>   4407
<211>   218
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063g05d1

<400>   4407

```
catatgtgtt tttttttttg tttttttttt ttttgtagga acaaaagggg ggggtcattt     60

aaaaacccct cccaaaaccg ggcctaattt tgaggccaaa ggttgaacaa ccccatttgc    120
```

gggcccttat tcattcccaa tttgggagac accccatttt taaggatgtg ggccatgcgc   180

ttgaacaaaa gggggaaatc aacgtgggga aacctaag   218

<210>   4408
<211>   523
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063g06a1

<400>   4408

gaaaaatgag ggtgctgttg ctttcttgat ttgtttgtgt gcagttggta atttttggat   60

tggtttatct tgtggatcac cttagctttt tgcttccaca gatgaggatt ggactcagga   120

tacttgaaga ctaaccctgt tcttcttagg acagtgtatg ggttggaata aatgaagccg   180

cagctcaaaa ttgctcttgc tttagttgtt agcttgcttt ggattcagca atcattttgt   240

gatgaaactt ctgatacatc tagcttaaac aagtggaggt gtagatgttc tttccaaggg   300

aaccaaagct attctcttgc taattgttca aaatcatgtg attgcttctc agattctgaa   360

gagagtgcat ctgtatggac atgcgtatgt gattccaatg gatttcccca agtggcagca   420

gatggtcata gctcccaatg ctttaatgct tgcaactgca cttggngaac cttcagcagg   480

ccgggaggtt caaagagcat gttccagcaa gatgggtgag tta   523

<210>   4409
<211>   552
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063g06d1

<400>   4409

gtgaccaaaa cctttaattt aatgtgtatg tcatccggtt cctctccaaa taaagaagaa   60

ccagaatttc ctatcatcct atgattttct gtacaagaaa caaacgaata cttttcagtg   120

ctcatcaaac aacacctgtg agcttttcct ttcaaaacat gaaaaaaaca tgtagaccaa   180

gataattaaa acagaataat tgcagcatct cttatgatat ctcatagagc catgcacagt   240

gacgggtggt agaacaagca acagaggtgt accaccagtt cacacaacat aaactcctca   300

ggcttctgcc atctgcatct ctctgcccgt gccgggtgta tattttcat ggggcattgc   360

catttgtgat gcaaaatgat tcaaacctag gctcagtcag gtctactatt tcctcttctg 420

atgcacgaga accgtcagat ttcgaagtca agaggatcaa actctccata ttctcagctg 480

aaactgcatc ttctgctttg gttttgttct caacagaaaa gatgtgatca ttatatattg 540

ggcaatgaac ta 552

<210> 4410
<211> 447
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063g07a1

<400> 4410

cttcacttgc ttgaagcaat ggcctaagcc ttggcatcag tgctgctgtt tctcctcgta 60

gctgtgagta atgtgtttgc tgtagagctt gaacttgaaa ctcttccacc ctcttaccct 120

caccctcacc ctgttcactc ccccacacca gcacctcttc acccaccagc aaatgctcct 180

cacccacacc accaccacca ccaccaccac cctccagcac cagcaccagc accagcacct 240

gttccttcac cttctcacca caattaccct cctacccctg cccctgctaa gcctcctact 300

caccaccatc accatcaccc tcctgctcct gttaatccac ctcctgttcc ggttcatcct 360

ccagttaaac ctcctgttcc ggttcaccct ccagttaaac ctcctgttcc ggttcaccct 420

ccagttaaac ctcctgttcc ggctcac 447

<210> 4411
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220063g07d1

<400> 4411

catactagaa ctatccattt catacgtact gtcactcatt attgtgtatg atcaattcaa 60

gcccagagcc tacaaacgca aaaccacaaa taaaaatgaa gacaaacaaa acaaggccag 120

aaagaaggca aattagagac aacacagctc tatcatataa cttaaaataa cttgaaatat 180

gatatatcca taatttcttg catttaatgg caattgggct caaatgcaag aggcccaaca 240

gtgtagagca caaaaggaag cctcttagac aagaaaggct tctcgggcct gagaagagca 300

ccagtgacac caccatggag atttgaggcc ttaagcccat aaggtgcact aaccaaacnc 360

acgttacact tgtggg   376

<210>   4412
<211>   468
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063g08a1

<400>   4412

aatggcttct atacaatggc catatgagca tcttaaaaca gctttctctg tttctacttt   60

tcatcaatac cttttcctct ttcttcttgt tattgttgtg ttaaagctaa caagaagacc   120

caaaatcaaa cccagtttca atctgcctcc ctccccaaga aagctaccaa tcattggcaa   180

tcttcatcaa ctaagcaaat tgccatacca ttctcttaga accctctcac aaaagcatgg   240

ttctctgatg ttgttgcagt tggggcagac tcgagccttg gtggtttcat ctccagacgc   300

ggtcagggaa atcatgaaaa ctcacgacat aactttctca aaccgaccca aaaccacagc   360

agcaaaaacc ttgctgtatg gatgtaatga cattggtttt gcatcctatg agaaagctg   420

gaaacacaaa agaaaaatat gtgtccttga agctctgagc cccaaagg   468

<210>   4413
<211>   362
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063g08d1

<400>   4413

agtctataat ttctttttata ttttagccac actgatattt attgtttgga tccggccctc   60

cttataacat agatcacttt aaagtaaatt aaaccatgga tttaaaggaa aaggggatt   120

ggcttaagat gaagtgcctc tttcttgtag gtaactaggc catatgtttc actcatgtct   180

atgtcttgtc cagatgtgtg agttgcaggc agcttccaat tgaaccaata aagaaggttg   240

gccagaatat actcaacaga agcaagccca acgtcattc cggggcatgc ccttctccaa   300

aaccaaatgt aataaattgc aagtcttggc cattaaaatg aacccggctg ttatcatgtc   360

```
<210>      4414
<211>      195
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063g09a1

<400>      4414

agcagaagtt gctgtgccag ctcctaaaca gttgggattt cttctggagc agttgctgta      60

ggacctaatt catctccctt aaatatgttt gcacaggaga cgatttctag cactggggct     120

ggacttggat cgctagactt ccttagaaat aaccccccagt ttcaagctca agctgccaac    180

cacaggacat ctagc                                                      195


<210>      4415
<211>      274
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063g09d1

<400>      4415

aaaaaccaaa ccctccccct ttttttttcc aacaaggccc attaaagttt aaaaaaatta      60

ggggaaaagg ggcccaacaa aactttgaat caaggggagg aatggaagtt aaaaaccctt     120

tttttggccc ctaaaaatga aaaaaaacct aggccggggc agcaaagttc cccccaatgg     180

gatttgcaag caaatagggg ggggggggg gtctttttact caaagagaga gggcccctaa     240

ctccaagctt tggcaggaaa acaaaagttt tttc                                 274


<210>      4416
<211>      410
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063g10a1

<400>      4416

cttttctcta atcttctaat ctcttatttt ttttcccct ctgttactcc ccgcttctct       60

gaatcccttt ctgttaatca tctgtctttc aactcgtgat tttttgggtt tgcctcacca     120
```

aaaagattca aactttgaaa attttttctcg aaagccaggt gttttcagaa tcgagatcca   180

gctttttttt tgtttggttt taaaaaatta ttattttctt tcattcaacc gcgagggttg   240

ttttgatcc ctcaaaagct ctccttcttt ttttctttct tggatttaag gggttgtcta   300

ttttaaacct ctcccatcct tttttgttgt aatatttaaa aaccacaggt tgatggtttt   360

aatctaagat ctgcgtgtgt agctggaaaa ttgaattttt atatggcagc   410

<210>   4417
<211>   435
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063g10d1

<400>   4417

ggccaagcaa gaaaaaaaaa accagctgac caagggagag agatttacat catattgacc   60

atcgaatagc caataagcaa atttaaaaaa aaaaaaagaa aaagaaaaaa gactaacata   120

atccaaatcc tacaagtagc actgcaatct tcaaaaactc aattgcagca gccacaagag   180

caatcctaat tataactaaa ttattaatta cccacaagac tagacataaa aataaaaaaa   240

caaagagtct tcagagagaa tcccaatcga tctcataaga aggaaacttt tgcaaattaa   300

aatgtgctga agcatcctcc cattgcggct cggttacatc aaaggtaaga tcagacaaag   360

cagaagaatc cgcagaaccc tcactttcag gagacagagc agcagcaccg gaacccgaag   420

cttcaggttc gggct   435

<210>   4418
<211>   490
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063g11a1

<400>   4418

ttcatattca tttcaatggc aacttaaggt tttgtcatta cctgcaaagc tgcggtggcc   60

tgggaacccca acaagcccctt aaccgtccaa gacgttcagg ttgctccgcc tcaggccggc   120

gaggtccgtg tccaaatcct cttcaccgct ctctgccaca ccgatgctta cacttggggc   180

ggcaaggatc ccgaaggtct cttcccctgt attctcggcc acgaagctgc agggattgtg   240

1858

```
gagagtgttg gagaaggtgt tactaatgtt cagcctgggg atcatgtcat tccctgttac    300

caggctgagt gtggggagtg caagacttgc aaatcgggga agacaaacct ctgtggcaag    360

gttcgctccg ccactggagt tggggtcatg ctcaatgatg gaaagagccc gttctccatt    420

aatgggaagc ccatttatca tttcatggga acatccactt ttagtcaata cactggtgnt    480

catgacgtta                                                            490
```

```
<210>       4419
<211>       378
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220063g11d1

<400>       4419
```

```
aacccaaaag ggatgctttt aagtattcat tctttctgat cacaagtttg ccaaaagatt     60

cgaaagataa catccatatt atagaccaaa atgatcttac ttacaaacta taaccactcg    120

agatttattt caagttcaaa ctacaaccac taaaagaggg gaaaagcaac ccaacacatc    180

cattcctcac gaaagtagcc aggctagcat agataacctc attcttgtgt tgaaagcaca    240

caacgaagac atcccccttc atgcaaaaga tcaaaagcct tgtgtgatct ccgaaagggt    300

caaagtatgg gtaatatact catcaacctt gatttccttc ttcaagtact tgtctacaag    360

ccaaggcacc tgtgacct                                                  378
```

```
<210>       4420
<211>       483
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220063g12a1

<400>       4420
```

```
cgaactgatc tggatgacaa agacttagag tctagtcgcg acagggagta tagagatata     60

gagagaagcc gggataagga ttacaaagac agaggaaggg tgagggaatc aagggaacgg    120

gatagacaag acaggtttca acttaatgca attaggtccc tcactctctc gtactgccat    180

caatccaagt tggtgatgct gtttcaatat aagattgtga ttaatttata gaaggcacaa    240

aatcttgtgt taatagcaat tgggtgagat tcattccctt taattaccat ttccgtcaat    300
```

```
ccacgggttt gattctttgc ctatgtcagg tggaattggg ctttatacat gtaaagacaa    360

tttgctgcca tgttgcgtat ttaaggaaca tgaacattgt gggttgggaa aatatggctg    420

atgcaaaatg gtattgatat tttcaaatct gaactgctat aaagaggttg catgtataac    480

aac                                                                   483
```

```
<210>      4421
<211>      474
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063g12d1

<400>      4421
```

```
acatcaaaac tttgtgattg ctatccgcca aagttgaatt acatcgatgt ttctagcatc     60

acaacccttg ttccaatcaa taaaactgcc aagccacaac agtaatagga cgcttatatc    120

aaaccaaaat ccccgaaaaa attattcaag tagtaactgc agcttttaca cataagcacc    180

tttaacttat ccaagacaaa tgtgcatagc taaatctttt tcaaaggaag ccgttatata    240

attctaagga tgattatttc tgccacgaga ctcctcatca cacaacaacc gtgaatttat    300

ctgctgtctg ggaatttatc ctcgtatgac tgaggcacca tgaagcttgc agtgatcatc    360

ttcccagcaa accatcttcc gtgcaaggac tgctgtgcac ttattgcaga ttgggtatct    420

tcaaatcgta aatagacaaa accagcactc ttcttatcaa catatatgtg tttt          474
```

```
<210>      4422
<211>      220
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220063h01a1

<400>      4422
```

```
tgcatatttt tactaatcat aatttgtgta taaaaacaga ctgatgaaat gatcagaaaa     60

ataaatttta tgtgaatatg tgattccagt tactcaaaaa aaaaaaaaaa aaaaaaaaaa    120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    180

agggcggccc ccaactaaga gagctttcaa cccgggaata                          220
```

<210> 4423
<211> 350
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063h01d1

<400> 4423

cgggaaaccg gaaaccccat tccccaaaaa atttaatttt ccgaacattt aaacagcctg   60

gtttttaccc caaattttga ttagaaaaaa aatccccccg cccccaattc ccaacttacc   120

cccccccacc ttccaacgta taaccccttc acaggggccc ccaaatgcaa aacccggggc   180

cgctttttaaa aaccccccta ccgggaaaac cctggggttc cccaatttta agcccttgaa   240

aaaaaacccc cttttgcccc ctgggggaat tccaaaaagg gcccccccca ctggcctttc   300

caaaaaaggc ccatcccaaa agggaaatgg cacccccccct gtacgggggc   350

<210> 4424
<211> 470
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063h02a1

<400> 4424

aagtatttaa aactagctgc tacttttgct ttgagttacc gagatagaga aaatatgctt   60

aagaggcttg ttcacactaa aacaaactaa agcataacat atgaagtaga gggaagtgct   120

atttttcaaa agaggaggga ggtcagtgta aattaagcat ttttttggag aaggtgaatg   180

taatttgccc tatttattgt tctgttcttt taatgaggag ttatataatg tgtgattaaa   240

tgttttctta tttatacagg ctttggacgt ttaaacaatt ccgatcaaga tccaattttg   300

ccttcccatt ttctcgtcgt tttttgtaa cggtctttcc atggcatatc ccttctctga   360

tttcaagtac tcagatggcc tcagtgtagt gggtatctcc ttctgcacag ctattgtctg   420

tgaggctatc tcatgggttc ttatctatcc gaccaattct tacataaacc   470

<210> 4425
<211> 481
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220063h02d1

<400>   4425

agacgatgag tctttattgc acttaaatca aaacttaaca agaaaatcac catcgtaaaa   60

ctggagttga ctgttttcag tatcagttgt accaattaaa atcattctgg actccctaag   120

agaaccaaat caaaaatata aatgactgaa gttttgcagt tccatatcat cttcaaccta   180

gaaacaactg agataaaaag tttaaatatt gtaaaaaccc aatcaactgg tctttggatc   240

aggcattgga aagaggccag cacttgcacc tcttggtggt gcaaaaccca agaacttctg   300

caaatttgtt ctgatgctaa tggaacacaa gaagtacaga aatgccatgg aacaatcagt   360

ggggtcatta ccctgcaacc ctcgatggct catcttcata ataagcccaa aaggtttgaa   420

gggcaatttg gcaacaacct tgccttcgaa gagtgaattc agcaacccaa agaccacaaa   480

g   481

<210>   4426
<211>   399
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063h03a1

<400>   4426

ggtttatcaa atttcttgag ccattttaca tgctgcttat aacaaaacga agaaagatcg   60

gcacaatctg tgggcacact atatatgcta tcacaaagag cgaaatggtc ccaattcctc   120

atgctactgt gcgatccaaa atggcttatt ctaaggatga gaacaggtct ttagtcaatc   180

ttgcatgtaa tcgtaatgcg tctatggtac atttaaagag acatgtagac agtagcattg   240

agagctatac cttgtccatt gtacttagat gttatgaatt acaatttttt aatttgagtt   300

cattatattg tgcagcgaaa acattctgtt agagcatagt tgagttggaa ttatacattt   360

tagacttctt cttgtactat atttgttgat tgtctctct   399

<210>   4427
<211>   265
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063h03d1

<400>   4427

```
ggttatcttg gaataatttc tggatttgga ggaacacagc gacttcctcg accagctggc    60

cgacaaaggg acccgatacg aggcgggccc caaaaccagc taaagggaag gaagccccca   120

agccggagcc cggggaaggg ggggcgccac caaaagaaac aaagaacacc gcaccccaat   180

gggcgccgga taaaccgggg caccgaccac ccccgggggc caagccgggg gagagcaaaa   240

aaaccgaacc cccggaagaa ggaaa                                         265.
```

```
<210>      4428
<211>      209
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220063h04a1

<400>      4428 .
```

```
gtttatctct tttcttcttt ttaatattta atttctttgt attttgtatg taaagatgta    60

aaattatgat tattaggtgg cgcatgtgtc gcgtcatggg ccaatgttat cctctgcttt   120

taagttggaa gaggcccaac tcatgtgtga tgtacggctg tgattgtgta atttaatttg,  180

caaaatcaaa aataacacca gagtcatat                                     209
```

```
<210>      4429
<211>      209
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220063h04d1

<400>      4429
```

```
atatgactct ggtgttatttt ttgatttttgc aaattaaatt acacaatcac agccgtacat   60

cacacatgag ttgggcctct tccaacttaa aagcagagga taacattggc ccatgacgcg   120

acacatgcac cacctaataa tcataatttt acatctttac atacaaaata caaagacttt   180

aaattttaaa aagaagaaaa gagataaac                                     209
```

```
<210>      4430
<211>      473
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
```

1863

<223>   Clone ID: jC-gmf102220063h05a1

<400>   4430

caaggcagaa agcaagctca tcctagagtt ttaaaaatgg cagcagcctc ctccatggct   60

ctctcttccc catccttggc tggcaaggcc gtgaagctgg gcccatcagc ccccgaagtc   120

gggagggtca gcatgaggaa gaccgtcacc aagcaggcct cctccggaag cccatggtac   180

ggcccagacc gcgtcaagta cttgggccca ttctctggcg agccccgtc ctacctcact   240

ggcgagttcc caggtgacta cagctgggac actgctgggc tttcggccga cccagaaacc   300

ttcgccagaa accgtgagct cgaagtgatc cactccaggt gggccatgct cggggccttg   360

ggctgcgtct tccccgaact gttgtcccgc acggggtcaa gtttggagaa gctgtgtgga   420

tcaggcccgg gtccagatct tcagcgaggg tgggctggac tantctgggc acc   473

<210>   4431
<211>   438
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063h05d1

<400>   4431

ggaaaaagca agtaacatta agttggattg ggatacacaa gataattcac attatctgaa   60

gtacattgca ataacatata cttcaccaaa cacaaatcta aaaactctca aaagtccaca   120

agtcatcctt ttctttcatg ctcacttgcc ggggacgaag ttggtggcgt aggcccaggc   180

attgttgttg actgggtccg caaggtgatc agcaaggttc tccaatggac ccttaccggt   240

gacaatggcc tgaacaaaga acccaaacat agagaacatg gccaatctcc cgttcttgag   300

ttccttcacc ttaagctcag caaaagcctc tgggtcatca gcaaggccca atgggtcaaa   360

gctgccccag ggtagattgg gtcagtgacc tcaccgaggg gcccaccagc aatacgataa   420

ccctcaaagc acccatta   438

<210>   4432
<211>   476
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220063h06a1

<400> 4432

```
gcatctcaga ggccaattct ttcttcgctt tttctctctt tccaacgctt ccccctgtgg    60

tgttctcgtg ttgctggtaa caatatggtt gttgacgctt tgaatgagga tttgagaatc   120

aacggagcag ttgaaccgtt gcctgaggac tttgatgcaa cagctgtaat catagatccc   180

gtgcctttgg cagttgtaga caatggcatt gtcaaggagg aggcgcacat cattaaagga   240

aaagagaaaa gagaaatagt gctgggaaga aatattcata cctcgtgtct agaagtcaca   300

gagcccgagg cagatgatga ggtcactggg gaccgggaag ctcatatggc tagtgtgttg   360

gccagataca aaagagcttc gactgaaaag acaaagcatc atttagggta cccctataat   420

ttggatttcg attatggtgc gctcatcgca ctttcagact ttttcatata caacct       476
```

<210> 4433
<211> 507
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063h06d1

<400> 4433

```
gacagcaaag attattctaa atgttattaa ttgcatcaaa gtcctgatag aacataggga    60

cgtacactgg ataaacactc caaaaaccaa ctacagcaat aaacactaga tgggatgctg   120

caattacttg tgcaaagcac aaaggcaatt cttttcacct acgtctgatg atatacagta   180

gggttgatcc ttgccatctt gaaaccaggt agcacgcttc tccagaagct cgttcagaaa   240

atcatcaagc ttctcaatag agatgtttgg catcaccacc acatgtgcga tattcccctt   300

gcatgctaac tgccacttgc gtataaattc ctcatcatgt ggcctctcaa acacaaccgt   360

gctgctcagt tcattaagca ttgcaccaat cccagcctca acaaggcggc ctttgaagta   420

gtgtgcattt cgcaagcatt tctgtacttc tttctgaaaa cctctatatc ctttccgatt   480

caggtatacc agaggaatat gggagca                                       507
```

<210> 4434
<211> 189
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220063h07a1

<400>   4434

caaacactag caaagggaag gaattgtacc tttcccaata acccctatct ccggtggggc   60

ttgtctcatc ggagggaaac aatcaataaa agaaaaaaaa aacccacaaa aagattataa   120

caaaaaagt atgaaaggaa aagtactagg ttccgcaggt tctctcatcc tactggtggg   180

tgtggtaat   189

<210>   4435
<211>   265
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063h07d1

<400>   4435

ggcaaattaa gtagtttcca ttaaatagcc aaaagcaaaa ttcccattgc ttctcccatc   60

atcagtctat gttatatgca tactgaagac agagatgaag tggttgatac aaaaaggcat   120

aaatcataaa tatgaaaagc ttattgaatg attacaaatc agctcctcag acaatggagt   180

ggctatgtgt gactgcattg aaattaggtg atcgatttcc tgtttatagg tttattaatg   240

taggtaggct aaaaaagaga ttata   265

<210>   4436
<211>   470
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063h08a1

<400>   4436

gtcgattaga ttactttcac accttagtcg tttgagtact tcaccttctt tctctctaag   60

cgcaaaacct cgtactgttt ttggcggtta aggatgtcgg ggaaaggagc gaaggggttg   120

atcacaggca aaacctccgc cgtcaacaaa gacaaggaca agaagaaacc catctcgcgt   180

tcttctcgtg ccggccttca gttcccagtt ggtcgtatcc accggctttt gaagtcaagg   240

acaaccgcta atggtagagt tggggccaca gctgctgtct actctgctgc tatcttggag   300

tatctcactg ctgaagtatt ggagctggca gggaatgcta gcaaggatct caaagtcaaa   360

cgtattactc cccggcattt acaactagca atccgcgggg atgaaaagtt ggataccctg   420

1866

ataaaaggaa caattgctgg aggaggagtg atttctcaca ttcacaagtc   470

<210>   4437
<211>   344
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063h08d1

<400>   4437

aacaaagaga aatactaaat attatatcca tgatcaacaa caggcaacaa agtcataaat   60

aaaaggccct actttgtttt tcaagtgcca tgcaaaaatt acacaattag tagagagaaa   120

ttttccatca agcaagctat tattcactag taatctactc cttggaagac ttgttgataa   180

gagacttgtg aatgtgagga atcactcctc ctccagcaat tgttcctttt atcagggtat   240

ccaactcttc atccccgcgg attgctagtt gtaaatgccg gggagtaata cgtttgacct   300

tgagatcctt gctagcattc cctgccagct ccaatacttc agca   344

<210>   4438
<211>   380
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063h09a1

<400>   4438

attctcatcc ctgccattcc agctttcatc attgccgagt gctatggctt tggaagacct   60

tggatttta tattgagctt acttggactt acaccacttg ctgaacgtgt gagcttcatc   120

acaaaacaag ttgccttta cactggtccc acaggcggag gacttctgaa tgctacatgt   180

gggaatgtta ctgagctcat aatagcaata tttgcccctta gcagtaacaa aattgctgtg   240

gtcaagtatt ctctgttggg ttctattctt tcaaaccttc ttctggttct tgggacctct   300

ctattatgtg gtggcattgc aaaccttaaa gtggaacaaa tatatgacag aagacaagca   360

gatgtgaact cacttatgct   380

<210>   4439
<211>   439
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063h09d1

<400>   4439

aagaagaaac tagcattaat agaatttta tttctcacac aataaataca agagattctg   60

caaactgaaa aagggatttc ttactaaagc aaactcaaac aagaacaact tccactcatt   120

tggcatctac cgtagtagaa caggatcaaa agcagctctc tgatagaaca cacgtatgta   180

ttatattgaa catcttgcac agtggttcat ttctcacagc tattgcaact taaaatactt   240

gcaaagcttc tgcaaattcc aaactttctt tttctccctt ctttatggat atgacaaagt   300

gatcagatca tgaaacaata atcaatccat tgaattgaat ctgattttg gtttggatcg   360

atgccaccat tcttcatctt aggaagggac aacaaatagg ccaaagccta ctaattaagc   420

gcttaaaact gattagtgg   439

<210>   4440
<211>   447
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220063h10a1

<400>   4440

attacactca cactctttgt gaattagggg ttttctttat tctttctaga cgcttccatt   60

gatcggcgat ttcttagaca tggcggagca tcacgaacac gaggaagtga agggtgagtc   120

cttgttggag aagatttctg ggaagatcca cgaccacgat tcgtcatctt cgtcggattc   180

cgacaacgag aaaaccagcg cttctgactc cttgaagtca aaggttctca ggcttttcgg   240

cagagaaaag cccattcacc atgttcttgg tggcggaaaa ccggccgacg ttttctctg   300

gagaaacaag aagatatctg catcgacact cggagttgcg accgctatat gggctctgtt   360

tgaattgctt gagtaccacc tnctcacctt ggtttgccac ttcctgatcc ttggtcttgc   420

ggtgtttgtt cttggtggtc caatgca   447

<210>   4441
<211>   505
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063h10d1

1868

caaaggtcct ttgggtatct tgctcaacac cttcgcatca aacactgcat attgcttctt   60

aatctcggca attgccttcc caccaaaaga gtctacatga tcttcatatt tctcataaag   120

cacaggcaca gtgtgcagca aaacaaaagc tatgtagaac agggtcaaga agttggccca   180

gctacccaaa atagagaaaa cccataatcc agcaatcact gataagaact tcttgagatc   240

ccttccagat gcaatatccc ttaacaacgc aaaagcccgg ttgatctcaa ctctaagagc   300

agaggcaaat tctaaaacag gtttctctgg aatgtgcact tgcgggatct ttggtggact   360

cttgttgatg aaagtggatg cattggacca caagaacaac accgcaagac caaggatcag   420

ggaagtggca aaccaaggtg aggagggtgg gactcaagca attcaaacag aacccatata   480

gcggtcgcac tccgagtgtc gatgc   505

<210>   4442
<211>   527
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220063h11a1

<400>   4442

aagtgcttct ctcctctgtc tttttctctc tcttgctatc cttttggcta gtggcactgc   60

tgcaagtgca actccaagaa gcgcagtgcc aagccaccat gtttcaacat tcaacagaag   120

ccttttttcct tccactttttc tctttggaat tggttcttct gcttaccagg cagaaggagc   180

agcaagtgta gatgggagag gaccaagcat atgggacacc tacactagac agcatactga   240

aaagatttgg gatcatagca ccggtgacat gggagctgat ttttatcatc gatacaaggg   300

tgacataaaa atagcgaaag aaattgggct ggactctttc agattctcta tctcatggtc   360

aagaatattc ccaaagggca agggagcagc taacccccctt ggggttaaat tctacaacaa   420

tgtcatcgat gagatcctag caaatggatt aaaaccttttt gtcactctttt ntcattggga   480

ctctccacaa gctcttgaag atgagtatgg aggattccgt agtccta   527

<210>   4443
<211>   398
<212>   DNA

<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063h11d1

<400>   4443

acttcgacat gccatttggc attatttatt tgataaaatg atctcttgat tacatccaac   60

acaagtgata tacgatgaaa tctagggaaa taaacaagaa aaacactaga catgtcaaag   120

gaacactaaa ttcagatcac ttgagaagga acttttgcaa ccaaaaagca gagaacttgg   180

ggtatctttt caagttgttc ttgtaatcca catatatgag cccgaatcga actgtgtaac   240

cagcatccca ttcaaaactg tccgaaaatg accatgcata atagcccttc aaattaacac   300

cttccttgat cgcttgaaga aggaatttaa gatggccatc atgggatcta atccttatac   360

tatccctgcg ggcttcattg actgggattg agtcattc   398

<210>   4444
<211>   512
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220063h12a1

<400>   4444

ctgccttgct catttacaca cctttccaac ctttcacttt cagctttatt tgaatccctc   60

tctctccttt ccaaatggcc agcgttgagg ttgcacatca aacaccaaca acagttccag   120

aaaatgaaac aaccgaggta atcaagaccc aggaaacaac cccggaacca gtaccagcca   180

ctgaggctcc tgcaacagaa caagcagcag ctgaggttcc tgctcaagaa gaacaacaag   240

caactgaggt tcctgcccca gaatcaacca ccgaagcacc aaatgaagaa accaccgaag   300

caccaacaac agaaacagta gaaacaacaa ctacagaaga agccaagcca gaggagccta   360

aagaagttgc agttgagacc gaggaggtgg tgacacagga gacagaggat gagaagccag   420

cagcagaaga gaaatcagag gagaaaactg aagaagtgaa agaagaagca gaagagccta   480

aagaaactac tgaaacagaa acagaatcag ca   512

<210>   4445
<211>   367
<212>   DNA
<213>   Glycine max

<223> Clone ID: jC-gmfl02220063h12d1

<400> 4445

aaaggaaata tcatttattc aaacctaaag aaacacaata acacatcatc acaaactcat   60

gtaaccctgc caataaaata aacccttatc cctaaactcc agcaccagca gcagattgct   120

cacttcaata cacaactcct agaatttctc atgtcaccac gtggtaagca cgctgatgtg   180

gagccaagtg ttgtgctcac acgtaggtat accctccata atacaaccaa agacttaacc   240

atcatataat aataatatat taataataaa ggccactgaa gaaatgaata aaaaaaaaag   300

cttttcaaca tgacatgcaa aatggtagac ctaatgatcc ccacaactag gaccatttta   360

aaacttg   367

<210>   4446
<211>   479
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220064a01a1

<400>   4446

ggagactttg agaaagccgt gtaccgatgg atactagaac ctgcagatcg tgatgctgtt   60

ttggccaatg ttgccatcaa gaatggcaaa aactacaatg tcattgtgga aatcgccact   120

atcctctccc cggaagagct tttggccgtg agacgtgctt atctcaaccg ctacaagcac   180

tccttggaag aagatgttgc agctcatacc tctggccatc tacgccagct tttagtgggg   240

ttggtgacct catataggta tgttggtgat gagatcaatc caaaattggc acaaactgag   300

gctgaaattc ttcatgatgc tgtgaaagag aagaagggta gctatgaaga gaccattagg   360

gtcttgacca caaggagcaa gacccaactt gttgcaactt ttaaccgcta cagagagatc   420

catggcactt ncatctctta gaacttgtcg atgaacgatc tgatgagttt caaagggca   479

<210>   4447
<211>   457
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064a01d1

<400>   4447

```
aaaagccaca aagcagctat catattaata ctctataaga taaaactcca agttctcatg     60

atcaaggaaa attgaaaaca gactcaagga aaaccaacac acatgaaacc atcacacaca    120

agtatagctt actgtcctaa actcataatc acaaatgccc tcgaagaaaa gtttttagtc    180

ttcttttccc aacagtgtga gaaggaactt cttgtagtcc ccagaggttt ccttggcaat    240

agcatgctca agaagaacac tgtttctctt gtagtaaacc tctgagatta tcttcaagtc    300

cttctcagcc cggctcacga ccacacgggt gagtgcatcc tcatcagttc caacctttt    360

gattgcattc cgcaccacct tttcgtagta cttaatagga tccttgatgc cacgaatggc    420

agtgtacaat gccctttgaa actcatcaga tccttca                            457


<210>        4448
<211>        316
<212>        DNA
<213>        Glycine max

<223>        Clone ID: jC-gmfl02220064a02a1

<400>        4448

ggagactttg agaaagccat gtatttatgg tttctagaac ctgcagatcg tgatgctgtt     60

ttggccaatg ttgccatcat gaatggccaa aactacaatg tcattgtgag aatcgccact    120

atcctctccc cggtagagct cttggccgag agacgtgctt atctcaaccg atacaagcac    180

tccttgtaag aagatgctgc aacccatacc tctggccata ctacgccatc ttttagtggg    240

gttggtgacc tcatataggt atgctggtga tgagatcaat ccaaaattgg cacaaacgtg    300

ggctgaaatt cttcat                                                    316


<210>        4449
<211>        450
<212>        DNA
<213>        Glycine max

<223>        Clone ID: jC-gmfl02220064a03a1

<400>        4449

gaacaaaacc ttgtctcttg ggctcgtcca ctgttcagtg accgcaggaa gtttccaaag     60

ttagcagatc cacagctgca gggacggtat cccatgcggg gtctttacca agctctagct    120

gtggcatcaa tgtgcattca agaacaggct gcagcacgtc cactcattgg ggatgtggtg    180
```

acagcccttt cttttctggc caaccaggca tatgaccata ggggagctgg tgatgataaa 240

aagaacaggg atgataaagg tggaagaata ttgaaaaatg atgtaggtgg aggatctgga 300

cgcagatggg atctggaagg atctgagaaa gatgactccc cacgtgaaac tgcaaggatg 360

tctaacaaca tggatcttga tagagaacgt gccgtggctg aagccaagat atggggagag 420

aattggagag aaaaaagacg acctagtgcg   450

<210>   4450
<211>   536
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064a04a1

<400>   4450

tcgaaaactg tttgactaaa acctttcgtc ccgcaacctc gtatcctgga acatgatgat 60

gactggttac gtcaaacacc atcaaattca atatgcccag tacctgttcg atcaaatgcc 120

cttcaaagac acggtttctt ggaatatcat gctctctggt tttcacagaa tcacaaactc 180

tgatgggttg taccgctgtt tcttgcaaat gggaagagct ggtgtgcccc ccgatgacta 240

taccgtctcc acattgctca gagcggttat aagcaccgag ttagatgttt tgatcccccca 300

gcttcacgct cgagcgctgc atttagcact taacttgagt gtgtttgttg ggtcttcgtt 360

gatcagagct tatgccagtt taagagacga ggaggctttt aagcaagcgt ttgatgatat 420

attgaggaaa gatgtcacgt ctcggaatgc ttcggtttct ggctatatgg aagtgggaag 480

tatggatgat gctcatacac ctttgatatg atgatgcctg agaaaacata tttcat   536

<210>   4451
<211>   380
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064a05a1

<400>   4451

ctgggaagat ggaaatccag gcttttgggc agccagtcca cagtatcagc ctggaagccc 60

tccttcacgg ccatatgaag ccccaactcc tggtgctggt tgggctagca ctcctggtgg 120

aaattatagt gaagctggaa caccgcggga cagttctgcc tatgccaatg ctccaagccc 180

1873

atatttacca tcaacacctg gtggacagcc tatgacaccg agttcagcat cttatcttcc 240

tggcacccct ggaggacagc ctatgactcc aggcacaggt ggtatggaca tgatgtctcc 300

agttttaggt ggggaaaacg aagggccctt gggttatccc agatatattg gtcaacgtac 360

acagggcttg agaggaatct 380

<210>   4452
<211>   491
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064a06a1

<400>   4452

tgcgaggctg cgacttctag cgttcgaaag agagagagaa tcgaaggcga cacacagctt 60

gcatccgatt ccgagaagaa gacgaggctt ctctttcgaa tacaatcttt ctgctacatg 120

atgttgaaca aatgatacag aatttattct gtgcacagaa attctggcac atatgacagg 180

acttatgcct ggagagttgc cacatcatgg aacacctgat ggcaactctg gtaaaagttc 240

tcaagacaag caagaggaat cattaggtcg ctggtatatg tctagaaaag aaatagagga 300

acattcccca tcaagaaaag atggaattga cttgaagaaa gagacatatc tgcgcaagtc 360

atactgcaca ttcttgcagg atttaggcat gagactcaaa gtgcctcatg taactatagc 420

aacggccata atctttgtca tcggttcttt cttcgacatt ctcatgcata gaatgaccga 480

aggaccattg c 491

<210>   4453
<211>   563
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064b01a1

<400>   4453

ctgttctagt ttattggcat ttggatcagt aactgcaatt cccaatgcaa attttcatcg 60

ggcgccaagg agcactagtg tgcttctggt tgttgtctgt gttttttgtg gtaacaggat 120

tcaacaatga agagcacagg acagtggagg tagttggcct aggagaatgc gcagactgca 180

tgcagaacaa tattaagaat aaccacgctt tctcagggtt acgtgtgacg gtagattgca 240

agtcacgaca tggacacttc agaacgagag gggcaggtgc gcttgatgaa tatggaaact 300

tcaaagtatc acttccacag gacatggttg aagatggtga gctaaaagaa gattgctatg 360

cccagttgca tagtgcatct gctgaacctt gccctttcca cggaaacttc aaaattgtga 420

ccaggtcagt ctctgaagac acacacaccc ttgcacctgc tgctggaata ctcagattct 480

catcagcatt gtgcacttca gccctttttt ggcatttctt taaacaccac ccagaatttc 540

cttaaccttc ctaagatgac tac 563

<210>   4454
<211>   471
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064b01d1

<400>   4454

cataaagcat ttttaagtta tacgtacttg tacaaaacta acagagaaac cttcacttat 60

taactcatca cattcaactt ggtcaccaaa attaacttca aactttctca aacaacattg 120

ctccatcatt tgtttttctc ttttactctc atttccatgc tcttctgctc acattctgta 180

tccactgaca tggatgttat tcggatttta ttgctaacat aagaagcaaa aacgctagaa 240

aacgcacata taaaaaacgt tactccgaga acaatgatag tctatgaatg agagggaggc 300

cagtttccaa accatgggtg ttggtaaaag aactttggag gttccatctt gggaagaggt 360

ggacacggct tcttgaaatg gaaaggagga aagtatttaa aatatggtgg cgacggcgcg 420

gtaggagtag gctcataaat gggagtagga ggaggaagtg gcttgtaaat g 471

<210>   4455
<211>   504
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064b02a1

<400>   4455

cgaattctca cgtgatgttc cgttttaaac agaacacacc agaagagaag gccaaggccg 60

gcacactttc cactcttcca tcacgcggat cgcaccgcaa taaacgacac ccagattgat 120

cgcgattcgc ccatctgatt tacaaagtgg aaccgcaatg gaggcagctc agagaagatt 180

1875

```
gggaggagga atggtgccgt tgtcgccgtc acagactccg cgctccagcg ataagcccgt   240

gcgagatctg cgatctgcgg attccaattc caacagtcac agcaagtatg ataaggacaa   300

aggtgtcaat gtgcaggtcc tcgtgaggtg caggccgttg agtgaagatg aaacgaggct   360

gcacacgccg gttgtgattt cgtgtaacga agggagaaga gaggttttag ctgttcagaa   420

tatcgccaac aaacagatcg atagaacctt cgcatttgac atggtgtttg gtcctaactc   480

tcaacagaaa gaactgtatg atca                                         504
```

```
<210>      4456
<211>      459
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220064b03a1

<400>      4456
```

```
gtaccccaga agatcgtaca aggttctcca cgaagacaaa cctctgttct caactgtgtt   60

tctttacctc tcacctactt tcagaccata ccagattgac taggctgaga agatgcagca   120

gacaccgcct atgattccta tgatgccttc gttcccacct acgaacataa ccaccgagca   180

gattcaaaaa taccttgatg agaacaagaa gctgattctg gcaatattgg acaatcaaaa   240

tcttggaaaa cttgcagaat gtgcccagta ccaagctcag cttcaaaaga atttgatgta   300

tttagctgca attgctgatg cccagcctta aacaccagcc atgcctccac agatggcacc   360

acaccctgcc atgcaaccag gattctatat gcaacatcct caggctgcag cagcagcaat   420

ggctcatcag cagcagcaag gaatgttccc ccagaaaat                          459
```

```
<210>      4457
<211>      498
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220064b04a1

<400>      4457
```

```
gaaccgtgtt ctctaatctt gtatttttct gtgtcgcttc gtggttcatt cttctcgttc   60

ttgtgatctg ttctattttg gagtacttac aacactcctt tgcaagttta attaattaaa   120

gaggctaatc aatttttcaat tggactgcag cagatggctg aggagggttg cagggttact   180
```

1876

ctaaatgtct atgacttgag ccaaggacta gcacggcagc tttcaatgtc cttttttgggg   240

aaagctattg aaggcatatg cacacagga gttgtggttt atggtaatga gtattacttt   300

ggtggtggca tacaacattc tcctgctgga ttaacaccat atggaactcc acttaaagtg   360

gtagacttaa gtgtgacaca tgttcccaag gatgttttcg aaatgtatct acaggaaatc   420

agtccgcgat acctgccttg aacatatagt ctgcttactc acaattgcaa caacttcagc   480

aatgagggtg ctcaattt   498

<210>   4458
<211>   381
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064b05a1

<400>   4458

gtggacaggt gaagactttc cacttggctc ttaaattggt tcctaagaag aacaagaagc   60

cttttgtgat ttacatcaag gccggtatct acaatgagta tattatcatg aacaagcact   120

tgacctatgt caccatgatc ggagatggcc ccaccaagac cagaatcacc ggcagcaaaa   180

actacgtcga tggcgtccaa acttacaaca ccgcaacctt cggtgtgaac gctgctaact   240

tcatggcgaa gaacattggg ttcgagaaca cagctggagc tgagaagcac caacccgtgg   300

ccctgagggt tacagcagac aatgcaatgc tctacaactg caacatggac cggtttccag   360

gacaccctct acacgcaatc c   381

<210>   4459
<211>   292
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064b06a1

<400>   4459

gttctagatc gcgagctgcc gccttttttt tttttttttt ttatattgga ttcagtgttg   60

tttttatcg tccgtatccc caccccatta taacatcaag caccatcaag aaaatgacgc   120

cttatttaaa ccaaaatacc cgaaataggt aaacaagaag taaccgcctc cttgtacaca   180

taaacaccta atactaaacc aagacaaatg tgcatagcta aatcgttaac aaaagaaacc   240

ttccaataag aaccaaggat gaaggttgcc gccaagagac tccacataaa ca   292

<210>   4460
<211>   434
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064c01a1

<400>   4460

gcccgtccgt gagcttatag ctgatgatgc ctggttgaat ggggaattca ttactactgt   60

tcaacaacgt ggcgctgcaa ttatcaaagc tagaaagctt tcaagtgcac tatcagctgc   120

tagtgctgct tgtgaccata ttagagactg ggttcttgga actcctcagg gcacttgggt   180

atcaatggga gtatattctg atggttccta caatgttcca gctggactta tatattcatt   240

ccccgtcact tgtgccaatg gggaatgggc aatagttcaa ggactttcca ttgatgagtt   300

ctcaaggaag aagttggact tgactgcaga agagctttct gaggagaagg cattggctta   360

ctcatgccta aattagacac cattgcttta tgtctactgt ccttgttagt aggttcccat   420

gtttcgccta taga   434

<210>   4461
<211>   521
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064c01d1

<400>   4461

aaaattagga ctaatccaaa attcaatatg cggcccatgg gctcaaatat cctcctccta   60

aaaggattag atgttgaaat acaagtaatt ccaatgaaaa acagactctt ctccagtgat   120

agttcctttg tatcttagaa ggagcattat tcaaaattga agctacactt ctataggcaa   180

aacatgggaa cctactaaca aggacagtag acaaaaagca atggtgtcta atttaggcat   240

gagtaagcca atgccttctc ctcagaaagc tcttctgcag tcaagtccaa cttcttcctt   300

gagaactcat caatggaaag tccttgaact attgcccatt ccccattggc acaagtgacg   360

gggaatgaat atataagtcc agctggaaca ttgtaggaac catcagaata tactcccatt   420

gatacccaag tgccctgagg agttccaaga acccagtctc taatatggtc acaagcagca   480

1878

ctagcagctg atagtgcact tgaaagcttt ctagctttga t   521

```
<210>        4462
<211>        476
<212>        DNA
<213>        Glycine max

<223>        Clone ID: jC-gmfl02220064c02a1

<400>        4462
```

actgaattcg agaaatttca ccttttgaat atccttgttt ctttttggtc tccacatgtt   60

tttagcggtt acgcttgtgt tttttctcgt gttcaaggga gttcaagggc taatccagga   120

atcagaatct aacaagagga aagagaaaaa cgtgttcaag tattttcttc cccaagtgga   180

ggctgcatct tttatgagca taattcttgc atttatttgg caaggggcga ttaggaaatg   240

gccaactttt atgcttcatt tcatactttg gtttactttt gtggtgtctc tggctgctgg   300

gattctccta atttgcttcc aaaagcccgc cactgatggt gttggagcgt gtttcattgc   360

ttttgcaatt gggaatggct tatatgcttg ctgggtaagt catagaatta agtttcgttg   420

taaggtattg agtttgtctc ttaacctgtc tccaaattcc tgatctgagc aaccca   476

```
<210>        4463
<211>        493
<212>        DNA
<213>        Glycine max

<223>        Clone ID: jC-gmfl02220064c03a1

<400>        4463
```

attgttgcat caccgcttgt ccacttcatg gctgccactg ccgctgcagg catagcttcc   60

ttgtttttctt cttctattaa cagtgtcaaa tgtcttcgtt cctccaagaa ctgctccatt   120

atagacccc ttataaccac agtgccctca aaccgtggca tgtttgtgtc acacttggtg   180

gaacctttgt ccattggggg tgccattaat tcgcacaagt tgtgggggcc tagaatttct   240

gctgctgttg cacaagaaga ggctgttgtt gtggctgatg atgaggtaga tgacggtgct   300

ggttcagttg aagaagagaa agtggaggag aatgaaggag aagtagttgc agaacaagac   360

tctgattcct ctgccaccaa gctttatttt gggaatttgc cttatagtgt tgatagtgcc   420

aaaactgcag ggctaattca tgattttggt agcgcagaac taattgaggt tctttacgac   480

agggatacct gga ·

<210>   4464
<211>   337
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064c04a1

<400>   4464

agagcctcat gctggtttca acttttcttg ggtgaatctg ccactgtggg cagcgacatc   60

tggtgaactc tttggaccta caaccaaaaa tggcgtgaat aaacctaaaa ctgctacgct   120

atcatccctc atacaaccac acaccaaata taagccgcca tatgttcaga tgacaccaga   180

tctatccttt gggcaatgcc ggtggagcta ttacgcagca agttgtacct gaccactgat   240

gaccggctga tgaaacacat actgagactg gctcagcgcc cgatccctgg ggggaggatt   300

aatcctagat ccgggtggat caaagtcacc atgtgaa   337

<210>   4465
<211>   388
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064c05a1

<400>   4465

gtttcgtacc actcatccaa acatttcaca gtgttctctc tctctctctc tctctgaaaa   60

acattccccg tataagctct ctccgaatgt cacaatgcct tagcgacgcc tcgctctgct   120

ttcttcctcc acgcgtctgt cactgttatc attccctgct ctcatttcgg tccctgacaa   180

tgagatcaaa cttctagtag tgttctacta ctaactattt ttctttcaaa aaagaaaaaa   240

gagagggaca ttattattat tattactata taaatatata tttgctctct ggtggagaga   300

tcagaagcga aaatggcacc accgttgttc aattgggggt tgaaggacac tcacagggga   360

accctgtgg ggggaaaatg agaaccca   388

<210>   4466
<211>   339
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064c06a1

<400>   4466

ctaaacctca tcttcctgat catgaacagg caccatattc ataaattaaa ggccctactt   60

tgttttccaa gtgccatgcg catacttcag aactggcagc gagaaattcc ccttgatgca   120

aggcatcatc cactgctaag acactccatg gtagactagt agatcataga cttgtgaatg   180

ccaagatatt gtcctacacc agcaattgat cctttatca gggtctccaa ctcttccttc   240

aggcagattg tttgttgtta acgccgggga gtcttacgaa tcgacttcat atccttgctt   300

gcattccgtg ccagctccaa tacctcagca tgtgagacc   339

<210>   4467
<211>   282
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064d01a1

<400>   4467

actggactgt ggactgagca ttaacacaat aaactgggat ctttttgctc ttcacatgac   60

tatagaggat acgacttgcg tgcattgttg cgttcaaagt agatcaagga ctaatccagg   120

attgagaatc ttacatgaag atagataaaa acgtggtaaa ggctattcat ccccaagtgg   180

acgctgtatc tgtgatgatc ataatacttg catttatttc gaccggggcg attattgaaa   240

tggccaactg ttatggtaca tctcatactt tgtattactt ga   282

<210>   4468
<211>   283
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064d01d1

<400>   4468

tttatatatt atcacaacct ttactcacag gaagactgga accatggctc ttgaccttat   60

agaatgcatc aaaataatga cttcgataga tagccaaaat gcttcatgga ggggggggac   120

cactgcataa gcaattatgg ctgctgggca agcctaacat cctttgcatt catgagcttc   180

caattcaggg tacacctttg cagaacattc tgaaccaacc actgtgttaa caagacacgc   240

```
cggatgacta ccataacact gttggacata agaccatggc ctg                    283


<210>      4469
<211>      402
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220064d02a1

<400>      4469

atcactacca aagatctttc ttttttcttc ttgttctaca atgaaaagcc tctgccttgg   60

gccgtttctt gctgctagtg ccccagttgg tagaagagcc tatggaggcc acttaagcag  120

aaagtgcttt caaaagcaac ttcacttcca ctcacgttgt gttgctttct cttcattcat  180

atgttctgca actatatcag tgatgccaga attagaagag aagcaagtgt ttgatggaga  240

gaaggctaat ttgctagtta aagatctcag aaagagcttt gattcaggca tgactaagag  300

ctatggatgg agggtttccc agctggaagc cataactaag atgttagaag agaaagagaa  360

ggaaattact gaagctctat ataaggacct tggaaaacct cg                     402


<210>      4470
<211>      348
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220064d03a1

<400>      4470

ttttgagttc aattactcat ggtgttaatg aaatagcatc atcagttcgg gcaagtatta   60

ggaaccagag caaaaagtac aaacatggaa atgaaccatc tgttgaatct gggaacagtg  120

agagcattgg tgaagtgtcc accgaaagca ctggtgattc tcatcaaata cataatggtc  180

atcatgaagt gggtgaaaaa agtagctcga ataaggaggt tcgacatcaa gatagtgaat  240

tagataataa gttggataga aaacccactc ttagacgcaa ttcatcaatc aatcagaaag  300

atgaatccca ctcattagga gtgaagcaga aatatgattt gattgatc              348


<210>      4471
<211>      395
<212>      DNA
<213>      Glycine max


                              1882
```

<223>   Clone ID: jC-gmfl02220064d04a1

<400>   4471

atggcatgca atgctttgtt atcttctcca actgctcagc taggcttgcc tgaacttcag   60

cttggaataa ttcctggatt tggaggaaca cagcgacttc ctcgtcttgt tggtttgaca   120

aagggacttg agatgatact ggcttcaaaa ccagttaaag ggaaggaagc ttttagcttg   180

gggcttgttg atggtttggt gtcacctaat gatttggtga acactgcacg ccaatgggca   240

ctggatatgt tgggccaccg acgaccatgg attgctagtc tttataagac cgaaaaatta   300

gaaccccttg gggaaggcag agagattttg aaatttgcac gagctcaggc tcgaaagagg   360

gctcctaacc tccagcatcc tttggtttgc attga   395

<210>   4472
<211>   118
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064d05a1

<400>   4472

gtgactgacg cacctttag aacttttata ccactaccac cacggacggg aagttgcgtc   60

tctattaaaa tcccactaca ccgtcttcat taccaacaag gtttgtttta gttaagaa   118

<210>   4473
<211>   426
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064e01a1

<400>   4473

atgatttgtg gaaccatatg ctactcctga cttaactctg cctacttgat atgaccatgc   60

tacaagactc ctgcagctgc ggctcactga gcggctactc catatggata aattggcatg   120

atgaagatgc gcatgcgaat acagagaatg atatggaaaa agataccgac cgacggctac   180

attctgaaat catggaaata ttactgtctg aatacataat tctttgccaa agacctgtta   240

cttaatgtcg tgaaaccgct tattgatatc ctcttgaggg tttctagaac tgggggacat   300

attgccttga tgcccaggaa tcaatgatca actgacgtca ctattactga tcttattatg   360

atattatgtc tggattcgat cgaacaattg tgactcaaat tactcaggtt ataaacatac 420

gggtca 426

<210> 4474
<211> 334
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220064e01d1

<400> 4474

acattataca ctttaaaatt tcacaatatt acattacttt ttcatattac acatggggaa 60

tcatgttata ctttgtacat cgtgtgaagt gaaaaattga accccttaat atttctatga 120

catgaccttt agtgcctttt ttgtttggcc tagtacattg aacactgttg ctgctatgtg 180

agatggtgta agaccggcta aagacaattg gtcagcaggt gatccatgat cgatttaacg 240

atccggaaga actattggcc gccacttcaa tttgccatct agaaggccat caagggccat 300

gaacttggca acatgagaac caaatcctcc aatt 334

<210> 4475
<211> 385
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220064e02a1

<400> 4475

ctccgctctc tcatcttacc gctttctcgg gaagtcactt cctcttccct ctcactctca 60

atggggtctc catttgctcg gccacgctca ccggctccac cagatgaaga aaaggccatg 120

tggggtatat gcatccctct ccgagagtgg agtgtattat tcccaccgac cgccgactcc 180

cctactagac accgccaact atcctattca tatgaagaat ctctctgcca aggagctgaa 240

acaactcgcg gatgaactgc gttctgatgt tattttcagg gcttctagaa ctggggggcca 300

tttgggctca agccttggtg tggcggaact cactggcgca cttcactatg tcttgaatgc 360

ccctcaagac acgatactgt gggac 385

<210> 4476
<211> 409

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220064e03a1

<400> 4476

acggaacaga ttctattggg tcttattggc gaaggaaccg gcattgctgc taaggttctg 60

aagtcaatgg gaattaatct taaagatgct cgggttgaag tggagaaaat tattggaagg 120

ggtagtggat ttgttgccgt tgagattccg tttactcccc gggcaaagcg tgttttggaa 180

ttctcactgg aggaagctcg ccaacttggt cataattata ttggatctga gcacttgctt 240

cttggtctcc ttcgagaggg tgagggtgta gcagcacgtg ttcttgaaaa tttgggtgct 300

gatccaaaca atattcgtgc tcatgttatc cgcatggatg gtgagggtgc tgacagtgtt 360

ggtgctactg ttggccctgg aagtagtaat aacaataaga tgccaacttt 409

<210> 4477
<211> 301
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220064e04a1

<400> 4477

ctgacctgat acggatcagc ggtcctngca cggcncaata ccagttcgac gagactacca 60

gtcggcggcc gccctttttt tttttttttt tttatgacct tgggaggtct ttaagaatat 120

gcaccccag gggcacgggg agagccgtac atcacacatg agttgggcct cttccaactt 180

aaaagcagag gataacattg gcccatgacg cgacacatgc accacctaat aatcataatt 240

ttacatcttt acatacaaaa tacaaagact tttaatttta aaaagaagaa aagagattaa 300

c 301

<210> 4478
<211> 218
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220064e05a1

<400> 4478

agtaaaatct gttaattttt atagcccctc caccatggac tgcacgaggc gagtttttac   60

ctcatcacat gacagggtcc tcttccaact taaaatcaga tgttaacatt ggccgacgac   120

ttgccacacg caccaggtga taagcatcat ttggcattgt gacatacaaa atacgcagac   180

tttcaatttc acatagtaga acaggaataa gccctcac   218

<210>   4479
<211>   527
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220064f01a1

<400>   4479

gtcctttgtt ggggaaggtg gttttggaag ggtctacaaa ggcaggcttg aaaccactgc   60

tcagattgtt gctgtcaaac agttagacaa aaatggtctt cagggtaatc gggaattcct   120

tgtagaggtt ctcatgctca gtcttctaca tcaccctaac cttgtcaatc tcattggata   180

ctgtgcggat ggggatcaac gcctcctcgt ttatgaattt atgcctttgg gatcattgga   240

agatcacctt catgatcttc ccctgataa ggaaccacta gattggaaca ctagaatgaa   300

aattgctgtt ggtgctgcaa aaggattaga ataccttcac gataaggcaa atcctcctgt   360

catctacaga gacttcaagt catctaacat attacttgat gaaggatacc acccaaaact   420

ttctgacttt ggtcttgcga agcttggtcc tgttggtgac aaatcacatg tttctacccg   480

tgtcatggga acttatggnt actgtgcctc tgagtatgct atgactg   527

<210>   4480
<211>   356
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064f01d1

<400>   4480

gacaaaaggg acgggctcca ttatgcccga gttcagttca gggggcaaaa agtcccgtta   60

aaaaaccagg gaaaacaaag ggcctaaaag ggtatgttaa aaaaattttg ttaccagggt   120

cattcatggg ccccccttgc aaaaaatggc tactaggcaa attttaagga aatcaaaacc   180

tagtaaaagt atatggccta aaaggctggc tgtttgagtt gtttctctaa aaaagccccc   240

1886

caaattttct tccatttttcc atagccccaa gggaaaaaat taagccttaa aaatgccctg   300

gtggaaactt tggtttcttt tttggcccaa gttctttccc cacattttgg gtttaa   356

    <210>   4481
    <211>   438
    <212>   DNA
    <213>   Glycine max

    <223>   Clone ID: jC-gmfl02220064f02a1

    <400>   4481

ctgcactctt gatcattctc cgtttctaca caggggaaaa tgagggagat ccttcacgtg   60

cagggagggc aatgcgggaa ccagatcggt tccaagttct gggaagtggt gtgcgacgag   120

cacggcatat atccgacggg gaagtacgtc tgaaactcag atctgcaact cgagcgcgtg   180

aacgtctact acaatgaagc ctcgtgcggg cgcttaatgc cacgcgcggt gctgatggac   240

ctggagccct gtaccatgga cagctgtgcg gaccgggccg tacgggcaga tcttacgccc   300

cgacaacttc gtgttctggc agtccggcgc cagcaacaac tgggctaagg ggcactacac   360

cgatggcgcc gagctcatcg actccgtcct cgacgtcgtg cgtaaggagg ccgagaactg   420

cgactgcctt cagggggtt   438

    <210>   4482
    <211>   493
    <212>   DNA
    <213>   Glycine max

    <223>   Clone ID: jC-gmfl02220064f03a1

    <400>   4482

ccgaaaatga agaaagcagc gattttgaag tctctccaaa ccattatggt tgtcttcctg   60

ctgatagtac tctttagcag caacaccaaa gcagaaaaag aaacaatcca cgaccatgca   120

aacaaaaaga cctacataat ccacatggac gagaccacca tgcccttaac cttcaccgac   180

cacctcagct ggttcgacgc ctccctcaaa tcagcgtccc cctccgcgga gattctctac   240

acttacaaac acgtggccca tggcttctcc gccagactca ctcccaagga cgtagacaca   300

cttgcaaaac aacccggcat cctctccgtc atccccgaac tcaaatacaa actccacacc   360

acaagaactc ccaatcttct tggacttgac aaagccacca ccttgttacc cgcctcggag   420

1887

caacagagcc aggtggtcat tggactcctc gacaccggcg tctggcccga gctcaaagcc   480

tcgacgacac ggg   493

<210>   4483
<211>   321
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064f04a1

<400>   4483

cgcacagcag aagctttgc agtttttatc cgacaacctc aaatggcagc gagattctct   60

ctatcagatg ctgaatttgg tggctctcca cagagatgac atcctttctg aagctgaggt   120

ctcagctttc aggacccatt tgctcgaaac ccttcttgct tttccccctg cgcaccagga   180

tcacgccctc atcatcaaag atcagctcat gtttgtgcac gatctcctta atgcaaagtg   240

catttccgat ggggagtacc actcttcaag aaggcctttg cttgtgagac tcgcagttct   300

aggaggtgag actgaaggca g   321

<210>   4484
<211>   519
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064f05a1

<400>   4484

attacgacga gcaacttggc gtgctggaac cggagtcgtg aactcgttct gcgatcgtca   60

tcaccgacca tcatcgcttt ttcttctttta cttcctcatc agagtctctc actgtgccaa   120

aacacgattt ttgtattgta cctttctttt gagttctgcg cttttcgatc ttaagaagac   180

ataaaaagga gcaacaacat gttggagaag atcgggttgc cgtcaaagcc ttcgctgcga   240

gggaacaatt gggtggtcga cgcctcacac tgccagggat gttcctctca gttcaccttc   300

atcaatcgca agcatcactg taggaggtgt gggggaatct tttgcggcag ttgtactcga   360

caaagaatgg ttctacgcgg acaaggtgat tcacctgtgc gtatttgtga accttgtcag   420

aagctagaag aggcagcacg gtttgtattg cgacatggac gcatacctgg gagaggaaag   480

cttgaatcag cacctagaga tgaagatgaa gctttgaac   519

1888

<210> 4485
<211> 98
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220064f06a1

<400> 4485

gtcactgact agcctttttt gctttttata gccccacctc ctttgtgtgg aagtggccac   60

acattatgaa gcaagctaca ccatcttcgt aaaatatg   98

<210> 4486
<211> 491
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220064g01a1

<400> 4486

cttctttatc ccattctttc ctcagattcg gaaaaaaaaa gctttccggt gctggggagc   60

ctagggttag ggtttctgag agatgtggga tgttccatgc attgatgagc cttatcgcgc   120

gctgttggaa gccgttcggg cacggtgacg acgccgctaa tgccgccgcc gccgccggaa   180

gagaatgcaa ggacggcctc ctctggttcc gcgacatcgg aaagttcgcc gtcggcgatt   240

tctccatggc cgtcgtccag gccaaccagg tcctcgagga ccagagccag atcgagtccg   300

gcgccttcgg ctccttcgtc ggcgtctacg acggccacgg cggccccgat tgctcccgct   360

atgtctgcga caacttgttc cgcaatctcc aagcgatatt ggctgagtca cagagtgttg   420

tgacatctga ggccattcaa caggcgttcc ggcggactga ggaagggttc acggcgcttg   480

tttcggagct g   491

<210> 4487
<211> 484
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220064g01d1

<400> 4487

agacaaaatt acttttctga ttttttttc ttttcattt tcatggataa atttctaaca   60

agtgttacaa gttcgtgcgt catcaataag ttgtctcgtt atcagtaacc atacgtggca 120

gcactatgaa tggtatattc tagcaacgtg ccaatggtgt attttctgga attggcacag 180

ttgccagaac acccgtataa gagaagcatg tttacaaatc ataagagtca gtgatcgaga 240

gcacttcgaa ttgtgagtgg cgtatttaga actgcgcctc tggatataag gtcgtggttt 300

aagaataaaa caataacagt tatatcgtcg tgaaaatggc gacgaacctt cttgtcaatc 360

ttgtaaaggt ctgaatatcg catttcacgc tttcttgctg cttcgtgtaa ggcagccttg 420

acaagtctct tggcactacc cgcgcgtgga ctgctgtgaa caatatccac tggttgatca 480

ttac   484

<210>   4488
<211>   465
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220064g02a1

<400>   4488

gtagctagct agggtgcaga aatttaaaaa taaaaattca tcagaaaaat gggactgggg   60

atgtttaagg cattgttttg ctgcagcaag ccccatgaaa ttgacattgc agactcctgg 120

gactcatctc ctgatcatac ccccaaacaa cattctaaac caaagccaaa gccaaatgct 180

gcacctactc attccaataa taaacaaacc accacatcta cacaaatagg agcaattcta 240

gggaaaccat acgtgaacat acaccaaatg tacgagatga agaaggaact gggaagcggg 300

cagtctggtg taacatatct gtgtgtggag aagacgacga agcgagagta tgcatgcaaa 360

tccatctctc ggtcgaagct gctgagcacg cangagattg aagatgtgag aagagaggtt 420

atgattctgc agcatctttc cgggcagccc aacatagtgg aagtc   465

<210>   4489
<211>   402
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064g03a1

<400>   4489

```
gaaccaaaca aagccctagc attttatcat ccttcgaaga aaaataacac caatcaatcc    60

tagaatccaa tccctcccct ttgaatttga tgcctcctcg cattcaattc cacgctctgg   120

tggcatcatc atcatggatc gaggtaataa caacaataac ggcgttgctg ttgtcgtcgg   180

ttgggtgcga acggggacac gctctgatgg tgccgtttag agtaaacgac gtgctccccg   240

tgctgccacg cgagatctcc ggggcggttc tgaacaacct gcacagggcc gtcgacctgc   300

tcccttatgg cgatggggcc ctcactactg ccaatgcctc cgtcaagtgg aaaagggcat   360

gcttatttcg atacacccgc cagattgagc tcgcaccctc tt                      402


<210>      4490
<211>      426
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220064g04a1

<400>      4490

ttcaaaccct agaattcctc gatttccgag ccttttatta acaatcccat gaggttctaa    60

atttttgag gattttgagg ttgcgtgagt tcggatttgg agttggtggg gttgaagagg     120

gagggtttgt ccgtggtcgg tggaattcga gttccgtagt gtttttgttt ctttttaagg   180

ttgtaattgg ttgtgttcga agatcagggt tcggagatcg aaattaacgg tgcggttttg   240

gatttgagtg tccgatatga cttctctgag cagagaattg gtgtttctca tactccattt   300

tctggaggaa gagatattca agaatctgt acacaagctt gagaaagaat ctgggttctt    360

tttcaacatg aagtactttg aggaaaaagt gcaggctggc gagtgggaag aggttgaaga   420

agttct                                                              426


<210>      4491
<211>      501
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220064g05a1

<400>      4491

gtcacgcctg aacaattccc ttttttattt cagccttgag cggctcctgt tcttgtcaag    60

ttggagtgaa ttaggagctg cttaattcaa agaatggggg gagatgcaca gaaaagaaac   120
```

1891

```
gtcatcattg gcgtctctac tttcttgttg gtggccatgg cggtcgcagt cacagccaat   180

gtcaacttca ataacaaggg atcaagccgt gattcaaagg aagaaagcaa atcccatgtc   240

gcttcctcga tgaaggccgc gaaaaccctt tgtgcaccca ccgattacaa gaaggaatgc   300

gtggactatc ttattgtaca tgccagtaac atctccgacc cacgggaact catctaaatc   360

ggattccacg tgaccatctc caaaatctgc gaaagactcg agaagacaca actcatgcat   420

gaggtcgaga atgaccctat atccaaagtg gcactcgaca cgtgcaagct actcatgaac   480

ctttccatcg gggagttcac g                                             501
```

<210>   4492
<211>   510
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220064h01a1

<400>   4492

```
gttgaacttc aagaacctca taaaaccctt tctctctctc tctctctaga tctgttcaaa    60

tccgaaacca tttccgctct aatttccaag agcaaaccct aatccgctct ctctgtatga   120

tactagattt cccctcctca aaggcgtagt tttgtgtcga tttgtaaatt cattcggtag   180

tttaggttag aatttttgtg tcaagttttt agggttttga atcggtgaga tgaatcacaa   240

caacagcaac aacaatagag cgaggtaccc tcccgggatg ggacttgtgc gcgggggttt   300

caatccgaac ctgagccaga acccgaacca gaaccagaac ccgagcctga accagaatca   360

tcacgcgttc caggctcggc cgncgtacca ccaacagcaa caggcgcaat atgtgcagag   420

gcatttgttg cagcagcagc agcaacagca gcagtggctg agaagggatg ccaacgccgt   480

cgacgaggtt gagaagaccg tgcagtctga                                    510
```

<210>   4493
<211>   383
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220064h01d1

<400>   4493

```
agcataagga aggaacatgt ccattttaag ggttttcatc cctaaaacat tcaattttaa    60
```

aactaccata ctaaaaacat gtaatgacca aataaatctg caaatgtaaa acaaaaaccc   120

aaactgaacc caataacttt ttggcaaata aaagccaatt ttaaactttt taaagggctc   180

aacaatgttt cagggctccc aaaacccgaa ttaatctgaa agccctcagt aatgggtaat   240

acccaatttt tgacagggca ttcttttatg ccaggttcca ataatacaca atttgccact   300

agcttaacaa aaccttttac ccacctactt gagccacggg cacactaacc actggtatta   360

accgcaactg ttaacacaac act   383

<210>   4494
<211>   516
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220064h02a1

<400>   4494

caaagagcta acaagatatt cattaccggc atggctaatg aagaggaaca gaaaaaccac   60

ctcttcggca tcaaagatct cggtcacaag actctccttc agagtgatgc actctatcag   120

tatatacttg aaaccagtgt ctatccaaga gagcacgagt gcttgaaaga gatacgcaag   180

atgactgcaa aacacccact gaacatcatg gcaacaccag cagacgaagg acaacttctg   240

agcatgcttg ttaagctcac gaattcaaag aacgccttgg aaattggtgt attcactggt   300

tactctctgc tctccactgc cctggctctt cccctgatg gaaagatctt ggctttggat   360

gtgaatcgcg aatactatga gttaggattg ccaataattc aaaaagctgg agtggctcac   420

aagattgatt tcagagaagg acctgctctn tcgttcttga cgagatgcct aaagatgaaa   480

taaaaggggt cgttgatttc gtttcgtgat gctgat   516

<210>   4495
<211>   520
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064h03a1

<400>   4495

ttcaccagtt aatcattgct ttgattagat aagactcgtg gatgtgtcat ctcctttatt   60

```
caacgttgaa tattgttatt attcttgccc ggtattgaga aaatacttttt tcgctgaagc     120

tctgaataac agaccatcat cgacagatgg ggtctgaagg tcctccagca gctgtggcaa     180

cagttcatgt aacaggtttc aggaaattcc atggagtttc tgagaatcca acggagacaa     240

ttgtcaataa tttgaatgaa tatttgaaca agaagaaggg tttgccaaaa ggcttagtta     300

ttgggagttg cagcattctt gagactgcag gtcaaggagc actcattccc ctctaccaga     360

cattgaagtc tgccattact tccaaggaat cagaatcttc aagttccaat aaaattattt     420

ggctgcattt tggggttaac agtgccgcaa cgaggtttgc tatcgagcgt caagctgtca     480

acgaggctac ctttcgctgc cctgatgaaa tgggatggaa                           520
```

<210>   4496
<211>   408
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220064h04a1

<400>   4496

```
tactcatcac tcactccaaa ccctctcaca ccaccattat tcatatctca ttctctaacc      60

tttcactatt ccctctcatt cactctctag ctagtttcct catcatcgta gaagaaccaa     120

tacttgtact ctctcttact ttttaaccat gtagaatgat tcacctaagg aaaaattagt     180

agcttcttgt tgtgctttttt attttgtttt gttgtgagta cagataaatc tgtctggtat     240

tgttgtgcgt tctatgaatc attcgatggg cgaagaggga gaagaagtgg ggagaaagca     300

cggacaaagg gggcgctgat ggagacaaat ggtacttgta tagctgctta caagactggc     360

aatattggtg ctggaattca atacacgaga ctagcaggtc tttttcga                 408
```

<210>   4497
<211>   511
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220064h05a1

<400>   4497

```
tgctctttct ctctcttaaa tctttggact ctcagattgc gcctttttttt tttcttttct      60

caaacctttg gtctttgatt ccaattccag ttggcttcta agaagagtgt tagagaagta     120
```

1894

tttattgatc agggaatggc tgggactgtg agtgaggaat ctggggcggg aaagtctgtg   180

gagaggattt caactgggca cgcgttgtct atccggggaa gcattggcag agtggctgtc   240

ttctgcgcag gtggagaatg gaatcgcgtc cacttctccc ccttactggg acactgatga   300

cgaagatgat ggaccaaaac cggcggcgtt atatggaaga tatacatgga agatagaaaa   360

gttctctcaa atcaccaaaa gggaacttcg cagctgtgca tttgaggttg gcggctacaa   420

atgggatatt ttaatctatc ctcaatgctg tgatgtaagc aatcatctct cactgtctct   480

gngtgtagct aatcatgaca aacttctttc a   511

<210>   4498
<211>   476
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065a01a1

<400>   4498

ctgacataag aaagaaagct gaagctgttg acaggttctg taagccaatt atgatgaaac   60

caaagccacc accacccaag ccagctacac cagaagcacc agcaacccca cctcctcagg   120

gtggtgagca gccacagcag cagcaacaac aaccacctga ggagaatcct aatgccagta   180

ctaatgaaaa ggcaggggac aatgctaatc cagccccacc accagcatct gctgaaccaa   240

tggagactga caaaccagag aacacaggct ctgcttaatt tttgttgatt ttgtctggtc   300

tctacgtttt gtataacaat ttgaattgta cctggaaaaa tcgtcgtggg tgagagttga   360

tgctgggatt ctttgctgga aaaattggta atgggtgaat tatctgagat tcggattatt   420

tttggtcaaa tctacgttct ataagtggaa ttacaatgct ggttacatt tgagtt   476

<210>   4499
<211>   440
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065a01d1

<400>   4499

aactcaaatg taaacaagca ttgtaattcc acttatagaa cgtagatttg accaaaaata   60

atccgaatct cagataattc acccattacc aatttttcca gcaaagaatc ccagcatcaa   120

1895

ctctcaccca cgacgatttt tccaggtaca attcaaattg ttatacaaaa cgtagagacc   180

agacaaaatc aacaaaaatt aagcagagcc tgtgttctct ggtttgtcag tctccattgg   240

ttcagcagat gctggtggtg gggctggatt agcattgtcc cctgcctttt cattagtact   300

ggcattagga ttctcctcag gtggttgttg ttgctgctgc tggggctgct caccaccctg   360

aggaggtggg gttgctggtg cttctggtgt agctggcttg ggtggtggtg gctttttggtt   420

tcatcataat tggcttacag   440

<210>   4500
<211>   370
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065a02d1

<400>   4500

gttaacattc tttgttattt catttatttta atcgtttatt tgaccaaaaa gggggccgaa   60

tatcaaataa ttcacccata accgattggt cccgccccga atccccagca taaactctca   120

cccacgacga tttttgcagg cccaattcaa accggtatac aaaacgtaga ggccagacaa   180

aaacaacgga aattaagcag agcctgtgtt ctcaggaccg gcagtcaaca ttggttcagc   240

acatgccggc ggtggggctg gattagcatt gtcccctgcc gttttatgac cactggcatt   300

aagattctcc tcaggaggga ggggttgctg cagcagaggc tgctaaggac cctgaggagg   360

gggggacgct   370

<210>   4501
<211>   414
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065a03d1

<400>   4501

accagaaaat aaaagaacaa tttagactag caataaagtg ttacatacaa cacaacaaac   60

aacaaagaca gagaaagaca atctgcaaac aacttaccga ccaaaactat tgatgaaaaa   120

agggaccgaa caaatgatga catgcatatt tcttactctt caagttcaat ttccttcatg   180

tacccaaaac caccaccaga ggttattttc tctcaatcag agtaggggtt tgatcttgaa   240

1896

cctgtaaaga agcctctttt ttttcaaggt aggattgtct atggtgagca acaatttttcc   300

cagttcaaca actttaaagc tattggaaac aactgggtca tcggtggggg acatctttgt   360

ggccttctgt agataaccgt atatgcatct taacatcagg cttgaattca gcat   414

<210>   4502
<211>   510
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065a04d1

<400>   4502

gcataattag taaaataata attaattaat tccatcacat gaacatatat tacgcgtaca   60

agaattgagg agtttgactg agggtacaca ctgaaaaaga agatagagaa gaatccgttg   120

ttacacgttt tactacaatg agagagtgat ggaaaaggcc aaagagagac tctcatgcta   180

acacaattga aaacctaaca tattacagct acccgttcag gcaaatacgt taatcaaaag   240

aagaacccctt aaatattaat accaaattac acgtacggta ccgttcttgc gttgaatgag   300

ggccccactt ggcaaagtaa ttaaagtnaa ttgtactttt agattaaata ttttgggacc   360

tcattttttt tttccttttcc ttctttctct ttggacttgg tacattattg ctttctagtt   420

cacacattgc tagctgtctc aatcacaggc acaggaccat nnttttgtta catgattcgg   480

cttaacaacg tcaataatat ggcaatttag   510

<210>   4503
<211>   526
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065a05d1

<400>   4503

gcaaccaaat aaagcggaac ttgcattaaa tattggatga atgtatgtac attttaatag   60

ctgagaaact aaaatagaca ggtgtccctg taggacgaag aggttggtta tcctatctgt   120

atccacactc acataggtaa attcatctta atctcaacaa cgacaaaata gaaggtggca   180

ctcactgtgc ctttagctat aactttttccc accaatactt gaaggcagtg gctgagatct   240

1897

```
caaatgatca gtgaccttgt cgatacacca agacaagtaa agccctcttt gcgtgaagca   300

gccgtttaac tcaagttgaa taaagtacaa agggaacaat gagaaaaatg gtcaacatta   360

agcaagtgta acttgaacag aacagccata tcgcaagtgc aagggacttt gaaactgcct   420

ctggctctgg catataccta tgcgcccaaa acgctgattg aacatatgaa ctactcgcat   480

ggcctgagga tactcttcaa ctttagtttc caaaatagat ttctga              526


<210>      4504
<211>      529
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065a06d1

<400>      4504

ggcacaaata agagacaatc atgtttaaaa tcgcccttgt atatcaactt aattacatta    60

acgagttccg gtactaaggt tgcgagtaaa actatgtaca aggtaggatt gttgaaaaat   120

gcaaggccga tacactccct tatcaccttg cacaacgcac aattccgtac tatactacta   180

tattaggagt gtataacagg gaaggcatat atactactac tactactact actactaatt   240

ccacgacacg gtccaaaatt ggatggatac tcattcatgc catccatatt ctgattccaa   300

acacaagcac tcacttgata aaacagtcag attcagaatt agaatttcct tcttcaggtc   360

atattctcca actagatggc tttatgacag tcacctacta ctttccactc cagtccggaa   420

cctggaagct atggaaatca aatctacgaa ctatcaggta tctgaagatg aatgattgag   480

ctgacactcg atttctgtgc gtctgctgca ccttcactgg cagattgat              529


<210>      4505
<211>      484
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065a07a1

<400>      4505

ctttctccta aaacatcttc agtgggttct ttttcttgta ttacaacaac ctcgtccaag    60

accatgacca tggccatggc caccatcctg ctcctggtca cggtcttcgc ggtttcatcg   120

ggccgtagac ttgtcgataa tctagtacga caacgcccac gccgccacgt cgggcaacga   180
```

1898

```
cgaggagctg atgtccatgt gcgagcagtg gctagtaaag cacggccagg tgtacaacgc   240

gctcggagag aaggagaata ggttccagat cttcacggac agcctgcgat tcatcgacga   300

ccacaactcc taagaggacc gaacctacaa gctctgactg aaccggttcg ctgatctcac   360

caacgaggag tacagggcca tgtacttggg aaccaagatc gatcccaacc ggaggctcgg   420

taagaccccg agcgaccgat acgcgcctcg tgtgggcgac atactacctg aatcggttga   480

ttgg                                                                484


<210>      4506
<211>      307
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220065a07d1

<400>      4506

attcattctt taatcttttt tttttttaaa aggaagaggg gtccatccag tcctaagtta    60

tcaacatata atataccacc ttgtttcatc tatttcaaaa ttggcggaac acagaaagtc   120

tttctctatg ggggaaaaat gaaagcctac caaaacatct ctcccttggg gattgaaatt   180

gtaaaacaaa tctccctcaa ttaataatat aaccttgtgt tcccgacaca ttttggcacg   240

gacttgtgaa cgaacaccat ggacctagtt gataaaaaac ggcccataaa aattcacccc   300

tgcttca                                                             307


<210>      4507
<211>      452
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220065a08a1

<400>      4507

gaaaatatac tgttgggtag gcctgatgca gaccaagttg agattgaaga agctgccagg    60

gttgctaatg ctcattcctt catcattaaa cttcctgatg gctatgaaac acaggtaaga   120

aaaagagggg ctgcaacttt ctggagggca aaaacagaga atagcaatag caagggcaat   180

gctgaaaaac cctgcaattc ttctcctaga cgaggcaaca agtgcattgg actcagagtc   240

agaaaagctt gtgcaagaag cccttgaccg gttcatgatt ggccgaacaa ctcttgtaat   300
```

tgcccatcgt ctctccacaa ttcgcacagc tgaccttgta gctgtacttc agctaggaag   360

tgtttctgaa attggaactc atgatgagct cttctcgaaa ggtgaaagtg gagtctatgc   420

caagctttat aagatgcagg agatggctca tg   452

<210>   4508
<211>   486
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065a08d1

<400>   4508

aaattaataa ggatgagcat ctattcatcc atttcaatct cgttcctgta ttcgtctgtc   60

attcccttgg taacattcat aaagacaaga ttacattctt gaataggaag agaaaggggg   120

ggtagggatg atacacaaac tatactatgg tcaaaacaaa aatgccaata attaatgggt   180

atatatatgg cttataatcc tgtagctggt aatttcattt gaatggctag ccttctcttt   240

catcatcttt tggtcttgtt gaagagcttg aacctgaggc cattccaatg acttggctgg   300

tgtgtgaacc tttgtaactg aatcatgcgc gcataaatcc catccgggtg atttttcaac   360

aactgtgaat gggagccttg ctcggctact ttcccatcat caatcacagc aatcagattg   420

gcattcctga ctgttgatag cctatgtgca acgatgatag ttgttttttcc tgaggaggcg   480

cggtct   486

<210>   4509
<211>   118
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065a09a1

<400>   4509

ggacaaacaa cataaaacac tcatttgggg tttaagataa aaaaaaaaaa acgcacgcat   60

ccgtggacag caccccaac accgacgctt actgtccgcg ccagattttc cagaagga   118

<210>   4510
<211>   279
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065a09d1

<400>   4510

attattaaat tacccaatat tgatcggaaa aaagccatta tgggagagcc ttgctcacga   60

cagagtagaa aggtctttgt tgtttcgaga cagaaggtct gttccggcta ttagcagaag   120

aaggccaaca aaattgaagg tggggcaca aagatgctct gattaaacat tcaatcattg   180

gccaaccagg ggtgggccaa tctccactcc ggagggagga acagggtttt ttggaggggg   240

tggatccaat ggaacggatt ttctttgttg cacagtcga   279

<210>   4511
<211>   327
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065a10a1

<400>   4511

gggccctcgt ttattatttt tttttttttc tccctcatta ctacaacagc gagggaaatc   60

aattcctcat cctggatact tccttctaat ttcatttctc tctcttcctt cttagaaaaa   120

aaaacaaaaa aaccacagct taatatcatg tatctagctc ttcattgtct cttgttcaat   180

aaaggttacg ctttaaaatt ctgaacctca caacttaagg caaatgttag cctacagatc   240

tgtgcgttga cccttggcag gatcagcttt tggaagggtt ggaattgttc ttccacatac   300

gccattgatt attccaaggt tctgttt   327

<210>   4512
<211>   319
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065a10d1

<400>   4512

gcttataata ttttttatatt tattcataaa aaaaatagga ccatacattt ggtaaatgaa   60

ttcggcggac accaaaatca cagaaatgta acttttttct atgataatca ctatcatagc   120

aacccc attt atttctgaag taaatgacag attataggggg gttgctaaac aaatctaaat 180

acagaaaaga atgcaaaaca tataacactc caagtggaag acaaacccaa atcatatcca   240

cacatggtag ggtacttatt tgaagaattc ccaattgaac ttgggaggac ctgatttatt 300

ggtctccgag ggatgtggg 319

<210>   4513
<211>   456
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065a11a1

<400>   4513

tttcagtcct gtgcatgtca gcatctgcta tagtggagat tgtgcgcctg aaggttgcaa   60

aagagcatgg ccttgttgat gaacctgttc ctgtacccct taatatattt tggcaaatcc   120

ctcagtaatt tcttattggg ggcagcagaa gtattcacat tcgtcgggca gcttgagttc   180

ttctatgacc aatctccaga tgccatgcgt agtttatgta gtgctttgtc gctgttgact   240

acttcacttg ggaattactt gagctctttc attctcactg tagtgactta cttcactaca   300

caaggtggaa atcctggatg gattccggat aacttgaaca agggtcatct tgattacttt   360

ttctggcttt tagccggact tagcttctta aatacctttg tgtacatagt tgctgccaaa   420

aggtacaagc agaagaagtc tgcttaagat ttttca   456

<210>   4514
<211>   579
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065a11d1

<400>   4514

cgttgatcaa acactacaat ctgaaacgat ggtgcacata aaaagagtat caacattttc   60

tacatcaata gttacaaatg gtagcaagca atgtagagaa attgaacatt aactgcccat   120

gtttagccta aatggtagca ggcaatctca tctcatcaat ttcaggcttc atgagagagg   180

gcagagacag ggctgttttg aaccatactt tgtaaatgaa agaaacgtac ataactgcag   240

aacatcttta ttccacatgc agaacaatca cgacattgac agaaggaaat agcagaatgt   300

cgtccttcca gtccaaataa aatgcctgaa aaatcttaag cagacttctt ctgcttgtac   360

cttttggcag caactatgta cacaaaggta tttaagaagc taagtccggc taaaagccag   420

1902

```
aaaaagtaat caagatgacc cttgttcaag ttatccggaa tccatccagg atttccaact  480

tgtgtagtga agtaagtcac tacagtgaga atgaaagagc tcaagtaatt cccaagtgaa  540

gtagtcaaca gcgacanagc actacataaa ctacgcatg                         579
```

```
<210>       4515
<211>       516
<212>       DNA
<213>       Glycine max

<223>       unsure at all n locations
<223>       Clone ID: jC-gmfl02220065a12a1

<400>       4515
```

```
ctcttctgcc ctccacacaa cttttttctc ctctctctct ctctacaaat cacttctttc   60

ttctcttcgc tgctcactgt agcgtagcca tggctttcag agttggagga gcgggaggag  120

gaaaatgcct cttctggcat gggtgttgct gagcatagcg tacgcacgtt cctggaattg  180

cagaggaaga aagttcatcg ctatgtgatt tttaaaattg acgagaaaaa gaaagaggtt  240

gttgttgaaa aaactggagg ccctgctgag agctatgacg atttcactgc atccttgcct  300

gaaaatgatt gccgatatgc tatctttgac tntgattttg tgacatctga gaactgccaa  360

aagagcaaaa tctttttttat tgcatggtct acttcggtag cccgcatttc gcctaagatg  420

ctatatgcaa catccaaaga caggttcaga agggagctgc agggctttca ttatgagatt  480

gaggccacag acccaaccga gatggatctt gaagtc                             516
```

```
<210>       4516
<211>       337
<212>       DNA
<213>       Glycine max

<223>       unsure at all n locations
<223>       Clone ID: jC-gmfl02220065a12d1

<400>       4516
```

```
ggttggaggg ggagacccca aataaccctc aacaggggag gtttattcta gctggaaaca   60

ggcaatctca tcttataaaa aaaaagcttg tgaaaaaaag gaaaaaattt gggtgaaaaa  120

aaaaagggt tgaaataaaa gattcccccg gggcctgaaa attttaact tccaaacgca  180

aaaaaaaccc tttttttgggg gggggaaatg agcaaccctt ttgcgaaaaa aaaaaaaaaa  240
```

atgcggggag gggtgttgcc caaaattcat aaggggggtcc ctcctggccg cttctaaacc   300

cgcattggtg gtgaggaaac taantccggg gggaagc   337

<210>   4517
<211>   535
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220065b01a1

<400>   4517

gcaaaatctt atcttagcta ccccatcaca acaaccacga tactatttct catactctat   60

taggcaaaaa caccaccaaa tgggagagga aaaggagcag cctaagaatg acaccgagaa   120

aaagcccgag gaggtagccc ccaagacaga cgacggaccc atccctgtcg tttacaaact   180

cgacttgcat tgcgagggat gcgtctagaa gatcaaacgc acctgtcgcc acttcgaagg   240

tgtggaaacc gttaaggcgg atctatcgtc gaacaaggtg actgttaccg gtaaaatgga   300

cgccgagaag ctgcgagata agattgccga gagaacaaag aagaaggttg atatcatatc   360

agctccgacg aaaaagaag ccgccgttgc ggaaaaaccg ccggagaaga acgcagaaga   420

catgaagcct gatgagaaat aaccagagga taacctagag agagtactgt ggatttgaag   480

atcanactac actgtgacgg ttgcattgcg aaaattcgaa gaatcattct taggt   535

<210>   4518
<211>   417
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220065b01d1

<400>   4518

atcgttgtct ttcttcggag gaggcaccac ttccacgttt cgcttcagct tctcgttcag   60

gtacggcaac atctccttca cgtccatcgt tcccttcacc gtcaccaagt ccttgcttac   120

gtcgaggctc accaattgaa caccttgaa cctaagaatg attcttcgaa ttttcgcaat   180

gcaaccgtca cagtgtagtt tgatcttcaa aaccaccgta ctctctttag ggttttcttc   240

cggtggtttc tcctcaggct tcttgtcttc tgccttcttc ttcggcggtt tttccgcaac   300

1904

```
ggcggcttct tttttaggcg gagctggtat gatatcaacc ttcttctttg gtctctcggc   360

aatcttatct cgcagcttct cggcgtccat tttacccgta acagtcacct tgttcga      417


<210>      4519
<211>      479
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220065b02d1

<400>      4519

aatagattga taacatacag gctacaaatc ttacaccaag gaatatgttg tttcttttgc    60

catgaattta aagtcttaca gggtcgctgg tttcaaatgc tgcactaatt tcgttaacca   120

cacaatatag taacactgca agaaattgag. cacgaaacag ataaagcaac aagatgacta   180

aggttattaa ttattgatca ctgatcaaat aaactctttc tttcacaaaa tgtgaaccaa   240

atgaaaggaa gtgcttagac ttcaaaaaag tgcatatgct gtgcagcaca attattatat   300

attaatgtaa tcatgccctt cccaaaagaa acaaacttct agtcagatta atttgactag   360

cactttatt cattctatcg ntaatttggt tggaacttat taagccctct tgaagataac    420

cctgaaggat ggaaccttat cactcaaaga caatgcttgt tcccatcatc accaacata    479


<210>      4520
<211>      398
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065b03d1

<400>      4520

gagtaagtaa caataacatg taacaaagat agcacaataa cacagatatt cccatagtga    60

ttatttttct acagattctc atccacacta aacaaattat cttaatttag ggaatcggct   120

agtagaagac caaccaaaac aaaagaatag aagaaaatcc aaagagcggc aagctcttaa   180

aaattctcag gactgtcatc caattgtttc tcgtcttcta tatcaacctc taaaatctca   240

gggatcctct gtttgagata attagcgact ctggcaggac agtggaacgc ttgtgccaaa   300

accgaccact aaggctaatt ttcacaaaag gcccatccaa gtcagctagt tcaaccactc   360

ctgtcatacc aacagaggtg tcaaagattt gacccagc                          398
```

1905

<210>   4521
<211>   387
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065b04d1

<400>   4521

aaaataatat aaaaaaccat tacactcttt ctaatagaaa gggtgagaat ataaaattat   60

acaagattaa aacatttgat attggattgt gcatgtgcta taagaggcag ggtaaatttg   120

atattgcagg gatgacatat ttgaaattaa gcacagtttg tagaacatgc atgagctaag   180

aggcagctaa agtaaaatgt ttttttttat tcctacataa tattgataat gcagcctttt   240

ttcaagcaaa catcttccat tgggtccgtc agttaaaaat cctctgacgt gcatcattca   300

tcaacgacta ccgtctcaag ctctcactat tgtagtccgc atacaactca nntggatcta   360

ttaaccgctt cgaaagcagc tgaggca   387

<210>   4522
<211>   490
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065b05d1

<400>   4522

gctaggaaca aaataaaact tagttaatta taattataac attcatagac tacgcagtct   60

accttaacta atcaatcata catttctaaa taaacttaat tctagagata gattgagcat   120

aaaaaaaata ctaataataa tttgacattt tagtagaaca ataagggaca aaattagtcc   180

aaacccggta cctggtccct tggcaagtgg acctcatgcc tctaaatacc ctattttctt   240

gttattggct ttcacacttt tctcttctta gttaatgcat aaaacaacag tatcgatact   300

ttatctccct ggttgacttt ttcaggtcat ctgaagacat atcttggact gcatcactgt   360

ttaattgctt gttatcatat attggttggt ccagagttgt cccatttttc aaagaatatg   420

aatcagcctg gtttggcttc attggtcttg aaagattctg gtctggtgaa gctggtacta   480

ctctcttata   490

<210> 4523
<211> 496
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065b06d1

<400> 4523

```
aaaaaaaacc tgatcaagga attatatcta tataccaaat gtcatcatgt attaatatga   60

taaattaaga gaaacagcta cccaacaaca gactaagcat cagctatgag ggaacatatt  120

agaaacaaca cagccattca gtattgtcca aagtacaatg acgtttcttc caatccctgt  180

tctcctcttt acagcttcca cggaaagcct ctaactagtc gatgggagat acacccttat  240

aagatctttc gcaacaacct tttttctaca ggtagggcat ttaccctgag cacttatagc  300

agctttgatg caatccttgc aaaaaatatg accacatctt gtcgacattt catgtaccat  360

agggcccata catattggac agttgaagac aagctccttg gaggttcagg tggctttaa  420

aactttgctc catggaactg ctaccgcctt ccaaatttat atacttatca caattaataa  480

tcagatttgg caattc                                                   496
```

<210> 4524
<211> 434
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065b07a1

<400> 4524

```
atcagtgcac gagaatcgcc ctctatcttc tttcttcttc aaatcattcc gatggcgatt   60

gcgtggccct ctctcgatct cactcaccac tccgattgcg gacccttagt ctccgcagac  120

ggatacatgt ctcatttgcg ggtgcagttc cctcctctcc gagacaagtg ccagaaccac  180

tttccccgac ctcggcaact ttcgaatcga ccgggtaact ggtttccggc gtctcttcaa  240

ctccgacgga cgcatctttt tcactcaccg tgttgccgat atcacaactc acgaaagtgc  300

ttgcctttct gttgaaccat gtgatggaga attccttggt gcagctgctt ttgagatgaa  360

gaacacagag attgcagcat ttattgaacg ggagcgcgaa tgtcgatttt tagctgttgt  420

ccctgaaaca ctag                                                     434
```

<210>   4525
<211>   410
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065b07d1

<400>   4525

gcaatcaaac attgttctat aaatatttgt tgaacgggca ctggtaccag caatttattg   60

acaatatata aatattattc taaacatttg ctggccctat taatatatga atatatctgc   120

atgctagaaa atagaaatct gctttgttgg gtttctaaca actactactt gtcaccgcca   180

ttcaacgttc gccacagtga ctcttcaatc ttcaatccag atggcagatg ctataataag   240

aaataattgg aacagccaaa ttcaaaaatg gcgaattgag aactgtatcg agtatcgact   300

ctgtgatgac atcaatcaac caccataacg ggttttcaaa gaatcaggtg gctcttctta   360

caagatgctt gtacccactt tttcaaagta ctgacgtatg gtcgttttac   410

<210>   4526
<211>   483
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065b08a1

<400>   4526

gtctctctct ataaatccct ctctcactcc ttcttttcgt ttacctgcca cacaaacaac   60

aaccctatct tcttcttttt ccactttccc tcagaactct cttagattta gctgtttcca   120

atcggtttcg accaaaaacc cattaacccc ttttgcagaa aagcaagatt gtgctctctg   180

caagggtcaa cgagtgtgaa aagcagaaaa agtttggtgc tttgtgctac caacatgact   240

atagcagagg atagtttgtt gcaggtggtg gaggaggaag agggtcctcc tgattttgct   300

ttgcttgatc ctgaggacaa ttctaggcct cgtagaattg ctctcttcgt tgagccttct   360

cctttttgcat atgtctcagg atacaagaac cgtttccaga attttataaa ataccttcgt   420

gaaatgggag atgaggtgat gggtcgtgac aacacatgga gggagtaccc aaggaatttt   480

atg   483

<210>   4527

<211>   520
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065b08d1

<400>   4527

ggcacaatcc ataattttg tcccattatt atatacatca atcaaatgaa tgcattacac   60

aaccaaccac acttatgtcc cataataggc ttccttaaag ccaaagcaat gaacaattca   120

aagaaccatc caaagctcaa aagaagcatt tgctttgcat caatcaccac gctatgtgtt   180

ggcttctgga tctggagatt ggaaaatacg ttgagccaac cattgaaagg gtctcaagag   240

ttgagccctt ttcttgcgcc agaaccaaat ggcagcattg tagttttcat tgcgaatctt   300

ctgagtggct gctctccaat catacttctc catctacaaa cgtgcagctt ctccatggtt   360

tctctaactc tttgtcatcc aaaagcggct ttagtttgct caggcaatct tcaagatccc   420

tcggtgataa gaggtaacca attttgccat cttggtcttc tggaaatatg tctggaacgc   480

caccggcacg cgctcccacc acagggattc ctgatgacat   520

<210>   4528
<211>   460
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065b09a1

<400>   4528

gtgcaataat tgtaaatcat gtaattcttt tgcactgata tcagacgttt ccctcaaggc   60

cttcctccag aatgctccat tgcatgagaa tatttaattc aatgttgcat atcattataa   120

aatgattcct catgaaccgg acccacatgt gttgcctatt acgttaattt actttcttgt   180

gtaaattaat gcaactaaaa ctgttattat tgttggtttg tgctttgttg agcactactc   240

cattgtttgt ggcgaaagat aattatagcg tgcaaaatta tattcatggc agtgtatatg   300

tgctgaaatt gtaaagtatt ttcattaata aaattgttgg agtttattt anaaaaaaaa   360

aaaaaacaaa aaccagaaa ataacaaatt cacaactaag tttacaactt taatgctgaa   420

taaaataaat tataaaaaaa aaaaagggg gggcggcccc   460

```
<210>      4529
<211>      389
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065b09d1

<400>      4529

aaaaaaaaac ccccccattt tttttaagga aaaacccttc aaatttccgc ccaaacccc    60

ggccgaaaaa aaaaagggc cccccaaaaa tattttcccc ccaaaaaagg gggggggggg    120

ccaaaaaagc ccaaccccaa aaaaaaaacg gggtggggggg ggttatttcc cccaaaaaag   180

aaatttcccc tgaaggggcc ccccgggggg gccccgcccg ggggggcatt tttaaagggg    240

gggccccatg gaaaaaaaat ttcccccgcc gggggccctt tggggggggg gcccggggggg   300

aaaccttttt ttttcgggca aaaaaaatcc cgggtttcaa attttgggcc ccggggccga    360

atttgggggt taggggcggg ggggggggga                                    389


<210>      4530
<211>      496
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220065b10a1

<400>      4530

ctccacccac ccagcatatc tctctattcc tatttattag caccccctcac attaccttgt   60

gtcaccaact actttgactc ctttaccata ccattacaat aattatcaaa cctaaccagt   120

aaaaaatggt gacccgggaa ggaaatccgc aacgctcagc gttcccatgg acccgccacc   180

atcttggcct tcggcaccgc cacgccgtcc aactgcgtct cccaagccga ttaccctgac   240

tactacttcc gcattaccaa cagcgaacac atgactgatc tcaaagaaaa gttcaagcgc   300

atgtgtgaaa agtccatgat aaagaagcga tacatgcacc tgacggagga gtttctgaaa   360

gagaacccga acatgtgcga gtacatggcg ccatcgctgg acgtgagaca agacgtantg   420

gtgatggagg tgccgaagct gggaaaacaa gccgcaacga aagcgataag gagtgggggtc   480

aaccaaagtc aaagat                                                   496


<210>      4531
```

1910

<211>   319
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065b10d1

<400>   4531

caataacaaa cacacgatct tgttcatatt aaattattct tgtacaacat tatgctacga   60

taaatccaca agtgaaacta gtaataataa caaactttcc ctggtatttc cgagggttcc   120

ttattgatca ctcttaaatc actagtcacc gcatcagcat gatttatccc tccaagggaa   180

cactgtgaag aacaacggtc tcaacggtta gacccggccc gaatccgaat agcacccccc   240

actctaaccc ttctccagtg gtactcttcc cttcctcctt agacttcttc ctcatttcat   300

ccagaatgaa caaaacaca   319

<210>   4532
<211>   321
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065b11a1

<400>   4532

ggtgtacgca gatcttgtgc actttacgct cttcgcacct gctttctgct gttgttcttg   60

cggattggct ttgtggggtg tgacaaattg tggttttttct gttgagggtc tgaaaggtgg   120

ttttttgtg tgtgtgtgtc tggaaatgag gtgcttttgc tgaagggtgt tggtggtggt   180

ttttggtttt gaagattgtg gctgtggaaa gggaaggtgc atgtgggatc ccaattgggt   240

tctatgtttg gtgaagaagg gtttgggaga agggagaaaa agctgggatt gttgtgggtt   300

tgtgataatg agcaggggta g   321

<210>   4533
<211>   464
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065b11d1

<400>   4533

gaggtatagg atgcgaggct tttaaattcc attaatccaa ttaaaataca aacatccaag   60

1911

```
acatctgttt caagattgtg tcttcactgc aaacacctaa aatggttatg gattgactta    120

caagatagga ctcaatttca tcgtcaacag tctcatgata gttgtaacca aagttcatac    180

cctttgtagg ccagagaaag ctgacactttt tttctaagga agcactgcct ttaagcctct    240

cactctcatt tttacacaaa ccatcaccag agactacaac agctccatcc ctaaaaagtg    300

tcttttctc taacaggatt gctccccctg gccaaaatat tcacaagaaa aacacccttc    360

ttctagaaca ttcttgtcat accatactga acaggaccaa ctttctatg agcagtggcc    420

ccagctgcag caccgattcc accatattga tgtgcctttg gctg                     464


<210>      4534
<211>      551
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmf102220065b12a1

<400>      4534

ctcgagccgc tttctctctc taccattgcc atggatccct acaagcaccg gccatccagc     60

gccttcaatt ctcccttctg gactacaaat tctggtgctc ctatttggaa caacaacttc    120

tctttaccgt tggagctaga ggtccaattc tgctggagga ttatcatctt gtggagaagc    180

ttgcaaattt tgatagggaa cgtatcccag aacgtgttgt ccatgccagg ggcgctagtg    240

caaagggttt ctttgaggtc acccatgaca tttctcacct gacatgtgca gatttccttc    300

gagcccctgg agttcagacg cctgtaattg ttcgtttctc aactgtcatt catgagcgtg    360

gtagccctga aaccttgagg gaccctcgag gttttgccgt gaagttttac accagaagg     420

gtaactttga ccttgttgga acaaaccttc ccgtcttctt gtacgtgatg gcatgaagtt    480

tccagatatg gttcatgctc ttaaacccaa tcccaagaac cacatccagg agaattggag    540

gatccttgac t                                                        551


<210>      4535
<211>      562
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmf102220065b12d1
```

actaacaaat acaaacggca tttattgaga taggtcaacg agttgcattc atggagttat   60

gggtacacac aacataatat tgcaagaaaa ggattagttc tttcaggtaa tccaaaatca   120

catccttatc gtactctttg cacgtctgca actctaacaa tcattctgga gttggcaaca   180

acattaaata tttggcctcg tgctgagatg agaagctatc ttttggccta gagaacggtc   240

agcctgagac cagtatgata tccagacact tgcggatctc atgggtgacc cgtgggtcag   300

ataaagcatc aacccatcgg cgagcaaatc tatcttgcct gtcaggtgcc caagaccggt   360

atctctctcc gggctgcgtt gaagttgttc tccttctcaa ttccacactt ttcacgcctt   420

ccactgcaga tagcgngagg tatggggaac ctttctgcat gacgacagga tcataccttg   480

agggaagtaa ttgacctcct atccctgtga atgaaattca tgaaaccttc atgatgatta   540

ttgtggtgag cacactttgg ag   562

ctctcgctct agttttttcg ttccgcgact cagcctttcg aatcctctca cccagaggta   60

cgattcgtac catgtagttg tgggatttcg gctttgccac ttcttgattc caataatttt   120

ggtttctttt tttcccctaa tttgatttcc ccagttaggg tttttaactc tattcgatcg   180

gcgatttcga atactcggag gctcgaatcg tgttgggggt tttccgtttt gattaaaaaa   240

gtttccgttt tttgtgttgg gtgatcaagg gttgtttgat ttttttcttg cgatcgagaa   300

tgggtgaagc ttcgggagct ggttccgctg attgtttcag ccagatgatg tcgtcgatgc   360

ctggttttcg ctttcatccc acggatgagg agttggtgat gtactatctt gaagcggaga   420

tttgtgggaa gaagctgaag ctcgaactga ttcatgaaac cgatgtgtat aaatgggatc   480

ccgaggattc gccttagcaa tctatattga aactggagat tggcaatggt tcttttctg   539

<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065c01d1

<400>   4537

gaaaatatgt taggacagca ctgtttggaa attctgggga aatcccaaac aacagtcatt   60

ttgggagggc ccagacaaaa tacctaacaa caaaactttg gatttacata aatatattca   120

aggggaaata cttttaccta ctagtcttaa gtttccaaca taaaacccaa caaaaagccc   180

ataaagcaat aagaattgat aataaaagga atggaagtcc ctttctgcca actctttca   240

tagttccagt ggctttacct gatgcagcaa t   271

<210>   4538
<211>   437
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065c02d1

<400>   4538

cacaaaaatc gggttaattt tttgaaaaaa cccggcctac cgaccttttt tacaggaacc   60

aattaaattt cttccgaaag aaaaaccctc tcaaagaagg gaaagaaaaa ttttttaaaa   120

aaaaaaaatg ggaaaaacca gcttccttat ttacatggaa aggggggttcg aaattttaat   180

ttggaaacgg ggaatttgcc aattggggag cctccccgaa actgggaatt ggagtcgttg   240

ggctgtttat aaattttggg ggggcccaac cccatcacaa gggttcgtaa gggggggggg   300

gaacttggtt aaacccctga atggggccta acggaggggg gggaaagaaa catgggcatt   360

ttttctggcg tggcggggga attgccaacc cctcctgcgg gacccaccgg ggggtgcggg   420

cccttccttt aggggggc   437

<210>   4539
<211>   427
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065c03d1

<400>   4539

caaagaatgg tattactaat accagaatgt actttataa ttatttatat acaaagagaa   60

1914

```
cagttgtgga ttccacgtcc cataataagg ggcttttctt agcatccaat aaggtgaggc    120

ataaggaaga caagcctagc cttaaaacct tttcctcaat cagaaacata tattttctc     180

ttcttctgat gaatgaaatc aattctacaa aaatcagcaa tatacaaaca tatttcctat    240

ttgacaattc agctaataaa tgaatgaagt ggctttttgg atcttatctt cctaaaataa    300

gctcaatcta tacgtcattg ccacatggnt tgatgctgga atgtgactaa tggcggggta    360

agtgaatgaa aagtgtagcc cctctgtgaa agtttgatct tccaaatgaa ttgaattgaa    420

ttgaatt                                                             427


<210>       4540
<211>       380
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220065c04d1

<400>       4540

atagatactt tgcctttcat aaaaaaaata aaaatggaat gaagttgaag agtaggcagc     60

gaggaaaatt gacagtttca caccatctgg acccaaatac cctggcttgg aatttcttga    120

tgaaccagaa acagcagata gaaacccggt ggcgcaagaa cagcggaaac cggcgcggta    180

acttcaacct cgtacgtcga ttccccaacc ttactcaaat cgtgtggctc cagcaccagc    240

atcctctgat tcatggagaa cgagtgcgtg ttaaatggcg gcgacagcat cgtaaccgac    300

accgaatccc caaccaaagt cgcgctcatc acctcaaacc gaagcctcaa cgtttgaccg    360

tacttgagtt ttgtttggga                                               380


<210>       4541
<211>       278
<212>       DNA
<213>       Glycine max

<223>       unsure at all n locations
<223>       Clone ID: jC-gmfl02220065c05d1

<400>       4541

aaaaaacata attttaattg acactctgtt ttacatttgt attaaataaa aagggtagc      60

ttttgggttt attccaaatg gaccgaataa ccacactcca aagttgaaaa aacgcaaaca    120
```

1915

agggggcccctt tattcccctc gcttttgaca aaaaaaaaaa aactttgtgg gcaggcttat 180

acaaactgca tagttgagga tttgcatggc naggcgaacg ggaaatatgg tgtaggaaaa 240

aattcatgtt gtggccatac cgtctatgat gcttgggc   278

<210>   4542
<211>   570
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065c06d1

<400>   4542

attcctctct tctcatcaca ttatattata tatttcttaa ttaacaccta ggacatatat   60

atgtctacac caaacatata gctacaataa tttctcacag aaaagacatt aatccttgat 120

gagctcccat tattggttgg ctggcgtgtc ttagcatccc ctccaactct gtagcaaacc 180

tctccatggc tttggctggc aagctaattg gtaccactat cacatgctct cctttgtggt 240

tcttacatga cacgtacacg cttgtcattt gaggaaaact tgtcattcca cccgtggcag 300

gcccaccata aatgggcttg ccccacccaa.aatcaacctc atcaagcccc aatacgtgta 360

gtattcgaaa caaggtaggg acctcgtagt tgcttgatgg ggtcttcctt tcaccacaat 420

taaatctgag gtagagcgca catactccta tccacgttgg attntgcatt ttttaccaat 480

tccaaagcat acccaaatgg attctcgcat aaccttcgtg atgtggttac cgctgccgag 540

agcacaaatc cattaccgta ataacccttt   570

<210>   4543
<211>   532
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065c07a1

<400>   4543

gttactgcac ctatatcttc accttctcct gttccagccc caactcctgc tcctatatct   60

tcaggaactg ctgtggaagg gtctgatatc tatgggcagg ctgcatccaa tctggttgct 120

ggaaagcaac ttggaaggga acaattcacc aaattcttga tatgggtgga gggagctggg 180

```
acagggatac cgttgtccgt gctcttcgag ctgcctacaa caaccctgag agagctgttg    240

aatatttgta tacaggtatc cccgagcaag ctgaagctcc acttgtagcc caagtgcctg    300

caagtgctca acctacaaat cctcctgctg atgctccaca aacagcacaa cctgctccag    360

ttacctcagc tggacctaat gctaatccat tagacctttt tccccagggt ctccctaacg    420

tgggttctgg tgctgctggt gctggttcat tagacttttt acgcaataat caacaattcc    480

aagccttgcg agctatggtg cangctaatc cacaaatatt gcagcctatg ct            532


<210>      4544
<211>      471
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065c07d1

<400>      4544

atataaaact tgacagcaaa aagtcattat atttccaaaa acatgaactg aacccagaaa     60

cagtctgtgt caaacgaatt acacatctat cgacttgcga atgaacaagc atgcacaatt    120

acacacgtta aaaggatgca caataccagt aatacaaggc aaacaactat gtatatgaaa    180

tactaagaaa ccctcgacgg gctggaaatg ataaatacat gggcaataat atggaggaga    240

ataaaacatc ccttatccac ttgagatttg acattatcaa aagcattacc tcattaaaca    300

tagtatgtaa caaagaccca tcgagaaaaa agatgacacg aaataatttg gcaaattcga    360

aggagatcta ttgttcctcg aactcatgca tgtgatccaa aggtagttgg cagccaattc    420

ctatttttgt tacagcgaag tacacctcca tacgatgcac gatcaaaccc a             471


<210>      4545
<211>      518
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065c08a1

<400>      4545

cacactttgc ctactctagt gtcttattca taggcccaag agcaaagaaa ctaagaagat     60

tttgagcaca atggcatcca cacaatgctt cttgcaccac catgccctca ccactccaac    120

cagagcttca tcacagcgct tagttgtgag caccaaacca aaccacattg tttgcaaggc    180
```

acaaaagcag gttgtccaag agggtgagga cactactaac attgtctctc gcaggttggc 240

cctcactgtt ctcattggtg ctgctgctgt tggctctaag gttgcacctg ctgatgctgc 300

ctatggagaa gctgccaatg tgtttggaaa gccaaagaca aacactgact tccttccata 360

caatggggat ggattcaaac tctcaattcc ctcaaagtgg aacccaagca aagaggttga 420

gtacccacgt caggttctta gatatgagga caaatttgac tcaacagcaa tgttgctgtc 480

atggtcactg caactgacaa gaagtccatc actgacta 518

<210>   4546
<211>   361
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065c08d1

<400>   4546

agcaacttaa aatgcttaat taaagaaaaa aaggggggg caaaaaagga gggtaagtcc 60

ttaaaagaca tgaaaaattt agaatcaaag tgcttactcc aaccaacagc ctcaaaaact 120

gaaacttgtg gacaaaaagt ggccacataa ttcaacacat acacacccct tcaagatgat 180

tcacatgccg aatagccctc cactgataag ttcttaggca acactgaaag aacttgctgt 240

gctctccaca aattttttg ctcccttaaa ccattttttg tctccagctt gagccttgca 300

aatgtatagt ttgccatctt ttacagttgc tgcaatcaag tggtgcttgc caccttcatt 360

t 361

<210>   4547
<211>   446
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065c09a1

<400>   4547

ctgggtcaaa gaccataagt gttttcgta ctgttacaaa tgttgggcct acaagcacgt 60

atgttgtgaa tactcacggg ccgaagggga ttaaggtttt tgttcaacca agttcgttgg 120

cttttaaga agacccggaa aaaggaatat gtttcaggtt atactgcaac caattggtgc 180

ccggcgtggg ttatttggga atttgtcttg gacagatggc aagctcagaa taaccaggcc 240

1918

```
tatcacaatt ctgccttaca aattactctc gatcaccatt cttatgctat cattgtcttc   300

ttatgagtgt gttcgcattt gctgctcttt aggctgtcat atgagcgtgg cccctactcc   360

tattgcatta agctcttttt ttttatttgt ttatgtaaag ccttgtcata aattaggcat   420

tcttaaaatg ctgatggaat ttgagc                                        446
```

```
<210>      4548
<211>      407
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065c09d1

<400>      4548
```

```
agggagatag ctccagttcc atcagcattc gaaaaatacc ttatttatga caaagcttta    60

cctaaaaaaa aaaaaaagaa gagcttgtgg cagtaggagt tggaaacacg ctcttattac   120

ggcctagaaa acagcacatg caaccacact caaaagacga cgatgataac ataagaatgc   180

tgatcgagag taattgataa ggcagaattg ggataggact ggtaactttg ggcttgccat   240

atggccaaga caaattccca ataacccac dacgggcacc aatgggctgc agtatgacct   300

gaaacttctt cttttctccg cttttttaa aagtcaccga acttggtggg acaagagcct   360

taatccccgt gggcccgtga gtattcacag agacgtgctt ggaggcc               407
```

```
<210>      4549
<211>      462
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065c10a1

<400>      4549
```

```
gaattttctt catccttctc tgttctccta gaacttgatt acttgaacat tccctatgac    60

agatgaggtg gttcttctgg atttctggcc aagtccattt gggatgaggg tcaggattgc   120

acttgctgaa aaggggtttc gatatgagta caaagaagag acttgagga acaagagtcc   180

tcttctctta caaatgaacc cggttcacaa gaagattccg ttctcatcc acaatggcaa   240

acccatttcc gaatccctca ttgctgttca gtacattgag gaggtttgga atgacagaaa   300

tcccttgttg ccttcagacc cttaccagag agctcaggct agattctggg ctgattatgt   360
```

tgacattaag atacatgatc ttggaaagaa gatttggaca tcaaagggag aagaaaaaga 420

agctgccaag aaggagttca tagaggccct taaattgttg ga 462

<210> 4550
<211> 572
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065c10d1

<400> 4550

gataatacgg aaaatactct attgcaaaac caacaaacac atgaaagata catcagaaaa 60

attttaaaac ctacacaatc caacagaaag catgaagttt ggcacatcca aatgcctttt 120

tattacacaa atattattta gttgaaaggt caagaacgac caatacttca ctatggctat 180

taagatccaa catgaaacct actcgatgac taacttcttt cttatctcca caacgaactc 240

atagaccttg tgctgatcag gaagagactt tgcaacactc tctttctgta ggcacctctt 300

ggcccaagca acaaacctgg ggcactcatt ctcaatgttg aggctgccaa aagtctcata 360

gactttgacc aagtgtagaa tggaacaagt gctatatcca caaaaccaat attgtctcct 420

ccaaataagt cttatctccc agctgttcct ccaacaattt aagggcctct atgaactcct 480

tcttggcagc ttctttttct tctccctttg atgtccaaat cttctttcca agatcatgta 540

tcttaatgtc aacataatca gcccagaatc ta 572

<210> 4551
<211> 576
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220065c11a1

<400> 4551

atctgagtgg aaatatatca ggatcagacc cattaaagga caaccgctta cttttgaaag 60

cagaagcttt agatgattct catgaagcaa ggaacactgc tgctgttgtt aacgagctgt 120

ccaaaggaaa taacanaaat tttggtttct catcctgtga atgctaaacg tgctgcagaa 180

gggaagaaca tagcaaatgt agacctttta agaggctgtg gcattcgaat tgaggttaca 240

ccatttataa atagacatgg tttgcggcca tgcatggtag ctccaacgaa aataattgct 300

1920

ggcctgggct tatcacttgg tattgatatt ctagatgctc ctggagcaac tggggactat   360

cgaactttac taacatcaaa agcatcagca atagctaagg cactctcagc tcctttacag   420

tcctgtccca gagtttttgt tcctggagag gatgagctta aagcaggccg gtcagatggc   480

tatgactttg gatttcttca tattaaggca atagatgatg ctggccatga caaggcgagc   540

atcctcaggt canagcatta gaagctgtag ataaag   576

<210>   4552
<211>   581
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065c11d1

<400>   4552

aatagaatga ttttttttgaa ttcatatcaa gctttaggac tctcctacga gagtgcaaaa   60

acaacagaga aaaatttatt taagttgagt ttacattgtt attttcagaa caaggcttct   120

tattctacaa atagtacaga aaatcaaaat ttgatttttg taccttgaaa tcacttgatt   180

tcagagtgag aaaagaaaaa tattaactgc cataacactc cctcttccta gctaagcagt   240

tcccgcatct aagttaagga atttctttac aattcccatc atttctcccc cagggaaacg   300

ccccagacat ccctttgcag ctgccacttc atttagctca taaaccgaat caccactata   360

agcttgacaa catttgnctc ttctctcttc tgtttccaaa tcatcaagcn aagtcttcac   420

ccgacttaac actcggaata ggaaatgggt caagagaagt tttgagaatg gtggattccc   480

caattgcacc aacaaagtct ttcaaccggc aaattgtgaa cgggaccgat tcaaagctat   540

gatctncata ttctactgga gtagagtgat ctctgtgaca c   581

<210>   4553
<211>   317
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065c12a1

<400>   4553

ttcagaagct agtattttga agctcaagaa ttacctgaag aaaggtatgg ggctgacttg   60

1921

tgaaattcca gctaaaggac ctgaagtgaa acctagggat aatagtgggg cacagggtca 120

tggtttcaag cagaatatta ggggtcccaa aataggtaaa tcaagtttca agcgacagtc 180

tcaacgcatt ttagcttcac agacacctgt atcagaacac aaagagcatg ctatacatat 240

tggaacagaa tcccaattat caaaagacac agcagattgt gagaaccaaa gttgtactga 300

tgagaaaaac aatcagc 317

<210>   4554
<211>   427
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065c12d1

<400>   4554

aagctaaaaa aaatacttaa atataacaga ttaaacaaac gggtgcaaac tataatgtac 60

taattcacat tatataaaaa atgggtatag acactgaatt aactgtacta gaactaccac 120

aagtcctttg tcttgaaggg actctgttgt ttctaaaggg tttaagggct tttcaatact 180

agtaagcttt ccaccacata ccaaaccatt tttacaggga tggtttcttt gctctgaaga 240

caccccacaa gtagtacttt tcttgaaatc ttcggcattg aataggcggt aatatagaag 300

gaaaaattag aagctctgca ttttcaacct ctgttcttaa ggaaaggtca aagtacatca 360

tgtcctctac cagcttgtga aaggccctct caactctttc actatcagga aaaaaataaa 420

gagcaat 427

<210>   4555
<211>   456
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065d01a1

<400>   4555

gaaacccgaa acgtttcggc ttgcttgacc cgtttcgcgc ttatcctcct actcaatggc 60

ggtgcctccg tcttcgctgg agaagccatt cgatgacttt agggttcagc tggaagaatc 120

tggaaccttg cgcgaacgaa ttcgaagcgt cggttcagag attgagtcct tcactaggct 180

catctatgcc acacttcttc tcggtcacca gtctcgtccc actcccgagc ttttagagaa 240

ggccaagtct catgtgaatg tgttaaagaa gccgtataag caactagctg aagatgttgg   300

aggatgccct gtgcaatact ataggtacca tggtgattgg aagagtgaga cacagtctgt   360

agtttcaatg cttacattta tgcactggct tgaaacagga cgccttctcg agcacagaga   420

ggctgatgaa aaacttgggc tgaatagttc acaatt   456

<210>   4556
<211>   175
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065d01d1

<400>   4556

cttactgaca aaagaagggg caatcctaag aaacagcccg gcaaaaaaaa aatgaaaacc   60

aaaaccaagc aaaaagaaca aaaaagaaaa accaccaaaa caaaaggaac aaaaattgaa   120

aaaaaaagag aaaaggggca aaaccatcga ccctataaga aaaagaacgg gagac   175

<210>   4557
<211>   394
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065d02d1

<400>   4557

ctgaagatag catcttgatt caagcattct acgactagaa aaacttgcag acttgacatt   60

actagtcatt tacgtacgac ggggggattat tatagcattt gaatttgaca ctaaagtttc   120

aagggaagtt aagcagcttg atagatacta gtactatata tctaagggtc atattgtaat   180

agggaaatgt ctagtttcat cacctcgaga gaggagaat gttgactttg gagtcttatt   240

gccatacttg acactaattc tggattctcc taagaaccca taaaagctat aggaaccgtg   300

cacatttgag actcccttta cacgacccgt ttgccactct tgaagaagtt tgtccaccgc   360

atcacctgct gggagggtct tgaaattatt ggct   394

<210>   4558
<211>   323
<212>   DNA
<213>   Glycine max

<223>　　　　Clone ID: jC-gmfl02220065d03d1

<400>　　　　4558

atagatactt tgcctttcat aaaaaaaata aaaatggaat gaagttgaag agtaggcagc 　60

gaggaaaatt gacagtttca caccatctgg acccaaattc cctggcttgg gaatttcttg 　120

atgaaccaga aacagcagat agaaacccgg tggcgcaaga acagcggaaa ccggcgcggt 　180

aacttcaacc tcgtacgtcg attccccaac cttactcaaa tcgtgtggct ccagcaccag 　240

catcctctga ttcatggaga acgagtgccg tgttaaatgg cggcgacagc atcgtaaccg 　300

acaccgaatc cccaaccaaa gtc 　　　　　　　　　　　　　　　　　　323

<210>　　　　4559
<211>　　　　439
<212>　　　　DNA
<213>　　　　Glycine max

<223>　　　　Clone ID: jC-gmfl02220065d04d1

<400>　　　　4559

atagatactt tgcctttcat aaaaaaaata aaaatggaat gatgttgaag agtaggcatc 　60

gaggaaaatt gacagtttca caccatctgg acccaaatac cctggcttgg aatttcttga 　120

tgaaccagag acagcagata gaaacccggt ggcgcaagaa cagcggaaac cggcgcggct 　180

acttcaacct cgtacgtcga ttccccaacc ttactcaaat attgtgggtg cagtaccagc 　240

atcctctgat tcatggagaa cgagtgcgtg tttaatggcg gagacagcat cgtaaccgac 　300

tccgaatccc caaccaaagt cgcgctcatc acctcaaacc gaagcctcaa cgtatgacac 　360

gacttgagtt ttgtttgtga cgcaggaaac actattgtgg gacgcacgct agagaattca 　420

tgctcaagat accaaggag 　　　　　　　　　　　　　　　　　　　439

<210>　　　　4560
<211>　　　　460
<212>　　　　DNA
<213>　　　　Glycine max

<223>　　　　unsure at all n locations
<223>　　　　Clone ID: jC-gmfl02220065d05d1

<400>　　　　4560

gactaattaa atcaaaacgg aaaggatcaa ctatagatat tactaatact aactaccaat 　60

acccatgttc ttcaagaata caatttcacc cgtaagcagt gttaaaagaa agaacagaaa 120

ggaacgggta gaaaacaaaa aatgtccaca tgactgtcct ctctcacttc tgaccaccag 180

cctcagttgg ttcaaccacc tcagcttcta caatttctgg ggtatggggc tggtttaccg 240

tggactggaa ctgaccaggt gtagaccatt taccagtgag agccataccc atcatctcat 300

atatcttccc tccaagttgt gctggattat caggcgtaaa accactggaa accaaagcag 360

catcatacaa aagatcgata gctctgaggg catcttcatc gtcagaattt ggtttaaatg 420

cagcatncaa gttcctgata tagaatgggc agggttgatc 460

<210>   4561
<211>   530
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220065d06d1

<400>   4561

gaaatactcg atatagatgc tcatagttat ttgcacaaaa ctggtaaaat tccagatcaa 60

taaggattgc ggcgaagccg caaagataca acattcatta gggaaaacag gagtggggaa 120

aaataagggg ggaggggttg aggaagaatc aattgctcac agagcatgct aagacaccta 180

aatattccac acacagttat tgaaacaacc caatatagag aaaatttttc tttggtgtat 240

tataatataa agcagaacca aatgacttgg aagattctac tttcttatac cattcacttg 300

gcaagttcgt tgcggatgag ttttgctgcg gcaaccatgt ttgtgagggc tggcttacct 360

cagtgtactt acgggtcttg agcccacagt cagggttcac ccacaagatg ttcttctcga 420

gcactgccag catcttgttg attctgtcag caatttcttc agttggtggt attcttgtgg 480

agtggatgtc atagacacca gggccaattc cagcaccata cttcacacct 530

<210>   4562
<211>   569
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220065d07a1

<400>   4562

```
ctcgaccaga cttcttctgg cgatgttttc catatggaaa ggatgtttat gataaatggg    60

gagatgtcat ttgtcatggt gaccaaaagg tcataaagga aggatacaag agtttcccaa   120

gtgggtcata cttcaagggt cattttctgg tctgggtttt ttatcattgt acttatctgg   180

aaaaataaaa gcatttgatc gcaaaggtca tgttgcaaaa ctttgcattg tttttctacc   240

actacttgtt gcatcacttg ttggcatttc tcgagttgat gactactggc accactggca   300

agacgtgttt gcgggaggtc ttttagggct tacagtggct acattttgct atttgcagtt   360

ttttccttct ccttatcatt ctgaaggctg gggtccttat gcgtatttta ggatgttgga   420

agaatctcgt ggtatgaccc aagtnnctag tgttcaaaat tctggtcaag cgcagttagc   480

agaggctcan gctgagagcc aagaggaaac aggtctcacg ggtgtatggg gttaaactta   540

tacgggatca tcatgcagca ttgatgact                                     569
```

<210>   4563
<211>   499
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065d07d1

<400>   4563

```
gaatgaacgg caatcttctc aagagatttc gtattttctt atgtcaacat attcacaaaa    60

tattgaaata acaaaggtta attgtcccaa acctgactct tacaaacaac tacgcttcaa   120

ggttttcaga gacactagtg actgaataga aacaactatt caacaaaatg tgttagtttt   180

aaatactggt taaaatccta ggctacgaac taacatctga tttacatttt acagagagca   240

agatcatgaa atgtacagac tttatcccct cccagattca cagtcattca atgctgcatg   300

atgatcccgt gataaagtta accccataca cccgtggaga ccttgttcct cttggctctc   360

agcctgagcc tctgctaact gcgcttgacc agaattttga acactaggaa cttgngtcat   420

accacgagat tcttccaaca tcctaaaata cgcataggga ccccagcctt cagaatgata   480

aggaggaggg aaaaactgc                                                499
```

<210>   4564
<211>   481
<212>   DNA
<213>   Glycine max

                                  1926
```

<223>     unsure at all n locations
<223>     Clone ID: jC-gmfl02220065d08a1

<400>     4564

cagtgacaga gtaaaggagg cataccgatg actatggcga tgacggcgtc gcagttgcgg     60

tgcggttggg ggtggaggcc aacgccgaat cagcagcagc aacgacgtcg tatggttccg    120

ggtggtgtgt tccatcgcta tagagaacgc gaagaacaaa gagagagcga aactgaagaa    180

gctcttcgat gaagcgtacg agaggtgccg cactgctccc accgaaggcg tttccttcac    240

tctccaacaa ttcaccgacg ctctcgacaa gtacgacttc aacgccgaaa tgggcaccaa    300

ggttaagggc actgtttttg ccacggataa caatggagct tatgttgaca ttactgctaa    360

gtccacggcc tacttgcctc ttcatgaggc ttgcatccac agaattaaga atgtggaaga    420

agcatgcata attcntggcg tgagagagga atttatgatc attgatgaga atcagcggat    480

g                                                                     481


<210>     4565
<211>     511
<212>     DNA
<213>     Glycine max

<223>     Clone ID: jC-gmfl02220065d08d1

<400>     4565

aaatctggtt ttgaactggt ttcactattg tcaatctgac taaagataac agggacaacc     60

tctcacaata atttggacag aaaataaaga gttatacaat tgcctttact acaaaactga    120

gttgctaaaa agaaccgcta cattagttca tctttctaca acaatatttg gagtaaggtg    180

taaaagaaa aaatagataa aagaaagaaa aaaaggggg ggaggggagg aaaagaggac    240

tcagttctca attctctcaa tcacgaatct tcagctgggg gtacctcact cagatccact    300

ccctctggag gcaagtctga agttagtggt cctaagattc cttcaccgct gagagttaat    360

ccactctctg ctggaatct aagcatatca gcacgagcca tagcttctgc ttgagcaatt    420

ctctgtctga atgtctgagc catctcctcc gccttctcaa agacaagctt tggattgcga    480

aatcatgtca caggtgtggg ttccaacttt t                                    511


<210>   4566

<211>    593
<212>    DNA
<213>    Glycine max

<223>    unsure at all n locations
<223>    Clone ID: jC-gmfl02220065d09a1

<400>    4566

ccacattcaa atccaaatgg cccttacat tacactaata attggcctcc tagtaaacac    60

cctagtactc tataaatagc atttgcatgc accttagtct tcaccaaaat actcctcttg   120

gccatcttgt ggtgggggcc ctttttttaa gctatttcct tctcttaaca caattggttg   180

tgccaattgc catagtcacc aaccaattaa caaaggtata tatatcatca tatcatcacc   240

aaatgaaaaa tattgggttg tttttttcttg tggtggtggc tacttttgtg gtggcagcca   300

cagctggtag cttttaccaa gactttgaaa taacgtgggg gtggggagcg tgccaaaatc   360

tatgagaatg gaaaccttct cacactctcc cttgacagag cctctggctc tggctttcgt   420

tccaaaaaag agtacttgtt cggaaaaatt gacatgcagc tcaagcttgt gcctggtaac   480

tctgctggaa cagtaactgc ctattattta tcttctctgg ggcctactca tgacgaaata   540

gactntgagt ttttgggtta cttgagtggt gatcctacac tcttcacacg aac          593


<210>    4567
<211>    564
<212>    DNA
<213>    Glycine max

<223>    Clone ID: jC-gmfl02220065d09d1

<400>    4567

gaatataatt ttgcacgcta taattatctt tcgccacaaa caatggagta gtgctcaaca    60

aagcacaaac caacaataat aacagtttta gttgcattaa tttacacaag aaagtaaatt   120

aacgtaatag gcaacacatg tgtgtcacgt tcatgaggat cattttataa tgatatgcaa   180

cattgaatta aatattctca tgcaatggag cattctggag gaaggccttg agggaaacgt   240

ctgatatcag tgcaataatt gtaaatcatg taattctttt gcacccaacg gatctttgcc   300

tgccccgtgg cgtccagtga ttggccagtg gaggaagaag tttgggaatt gaagtttctg   360

tatgaggctg tgaatggggc cttgctccaa tccgttttca caagcccacc ccttgtggcc   420

caatccccag cgttccaaag actagagtat attctcatgg gttggctctt tgggaatgga   480

acccctttttg tctccaaatt cttgaactcc cttattgggg tcccgtccac agagaatatg 540

atgcttgcag gattccattg gacg                                         564


```
<210>      4568
<211>      538
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220065d10a1

<400>      4568
```

ccacattcaa atccaaatgg ccctttacat ttcactaata attggcctcc tagtaaacac   60

cctagtactc tataaatagc atttgcatgc accttagtct tcaccaaaat actcctcttg 120

gcatcttggg gtggggtcct tttttttaagc tatttccttc tcttaacaca attggttgtg 180

ccaattgcca tagtcaccaa ccaattaaca aaggtatata tatcatcata tcatcaccaa 240

atgaaaaata ttgggttgtt ttttcttgtg gtggtggcta cttttgtggt ggcagccaca 300

gctggtagct tttaccaaga ctttgaaata acgtggggtg gtgagcgtgc caaaatctat 360

gagaatggan accttctcac actctccttg acagaggctt ggctctggct ttcgttccaa 420

aaagagtact tgttcggaaa aattgacatg cagctcaagc ttgtgcctgg taactctgct 480

ggaacagtaa ctgcctatta tttatcttct ctggggccta ctcatgacga aatagact   538


```
<210>      4569
<211>      545
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220065d10d1

<400>      4569
```

gaatataatt ttgcacgcta taattatctt tcgccacaaa caatggagta gtgctcaaca   60

aagcacaaac caacaataat aacagtttta gttgcattaa tttacacaag aaagtaaatt 120

aacgtaatag gcaacacatg tgtgtcacgt tcatgaggat cattttataa tgatatgcaa 180

cattgaatta aatattctca tgcaatggag cattctggag gaaggccttg agggaaacgt 240

ctgatatcag tgcaataatt gtaaatcatg taattctttt gcacccaacg gatctttgcc 300

tgccccgtgg cgtccagtga ttggccagtg gaagaaagaa gtttgggaat tgaagtttct 360

gtatgaggct gtgaatgggg ccttgctcca atccgttttc acaagcccac nccttgtggc 420

ccaatcttna gcgttccaaa gactagagta tattctcatg ggttggctct ttgggaatgg 480

aacccttttt gtctccaaat tcttgaactc ccttattgga gtcccgtcca cagagaatat 540

gatgc 545

<210>   4570
<211>   574
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220065d11a1

<400>   4570

gtgatttcag tgagtgatcg gtgttcactt gatctcatca taatcgtcag cgtcaattga 60

agaagatgcc gatcagaaac atcgccgtcg gaaggcctga agaggcgact caccccgaca 120

cggtgaaggc ggctttggct gagttcatct caaccttcat cttcgtgttc gccggctcag 180

gctccggcat cgcctacaac aagctcaccg acaacggcgc tgccacccct gccggcctca 240

tctccgcctc catcgcccat gcattcgccc tcttcgtcgc cgtctccgtc ggcgccaaca 300

tctccggcgg ccacgtcaac cccgccgtca ccttcggcgc cttcgtcggc ggcaacatca 360

ccttcctccg cggcatcgtc tacgtcatcg cccagctcct cggctccatc gtcgcctccc 420

tcctcctggn cttcgtcacc gccttcactg ttccagcatt cggactctcc gntggagttg 480

gagttggcaa cgccttgtgg tggggatcgt gatgaccttc gtctggtgta cacggtctac 540

gcactgccat tgaccccaga agggtatttg ggaa 574

<210>   4571
<211>   548
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220065d11d1

<400>   4571

catgatcatc aaccatccaa ggatttaaga cgaaaggaac aagtacaacc ctcgaaagtg 60

1930

```
aattaggaag aaaacacaag gaaggaaaac catacacaga agaagattcc agagaaattc    120

aataatacac aatttttttt tttttattt tcatttcccc ccctctagta gtcagtggtg    180

ggaagctgct cgtgggtgtg gctgataaag acaacctcgt aaacaaggcc agcgattcca    240

ccaccgatga gaggcccggc ccagtagatc caggtggttg gtccaggtcc agctcacgac    300

agcaggccca aatgtcacag cggggttcat ggccgctcca gagaaggccc cacccaacaa    360

aatgttagcg ccgacaatga aaccaatggc gatgggagca ataattccca aattaccctt    420

cttggggtca tgggcagttg cgttagccgt gtacaccaga ccgaaggtca tcacgatctc    480

caacaccaag gcgttgccaa ctccaactcc agcggagagt ccgaatgctg gacagtggag    540

gcggtgac                                                              548


<210>      4572
<211>      518
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220065d12a1

<400>      4572

ccacaagcaa gtttgctaag gcattaatct ctattaccct cattatccaa aatcagaaaa    60

aatggccact agaggcctca aaatttgctt ggccgtgtcc tctcttttct tgatcattct    120

tgccatcgtt attgtgacct taattttgac catctttaaa cccaagaacc cagatatatt    180

tctccaccca gttgacctag aaaactttca attgctttca cctaatacaa ctagtgcacc    240

cttaggcata gtgatcacaa ttgtgaaccc taattatgga aacttcaagt acgtgaattc    300

cagtggctat cttaaatatc gcgacaccat tatagccgaa gttccattgg ggataagatc    360

attccctgct cgtagcacta ccaatgtgag cactactgtg ggtattatga ccgataaatt    420

gatacaagat ccaaagtttt tgtcagatat tgaaggtgnn ngtgttcaat ttgacagcag    480

aggccacact ttctgggaaa gtgaccatga tcaagatt                            518


<210>      4573
<211>      434
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065d12d1




                                1931
```

<400>   4573

aaaaagaaaa ggagagagta attatttaaa ggcaaaggaa aacatatttt ctcccccaac   60

ccccaccaag agcatattag tttcaacatg tgtaaaaatt cctttttttt gcaattaaca   120

tgcattcaca atttgatttt ggacatgcag gtggaactag catccacagc aattattttg   180

aaagagaccc cacaagagat ataaattttg gccttaagcc ttaaaatctt gatcatggtc   240

actttcccag gaagagtggc ctctgctgtc aaattgaaca ccccaccttc aatatctgac   300

aaaaactttg gatcttgtgt caatttatcg gtcataatac ccacagtagg gctcacattg   360

gtagggctac aagcagggaa tgatcttatc cccaatggaa cttccgctta atggggtcac   420

gatatttaag atag   434

<210>   4574
<211>   495
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065e01a1

<400>   4574

gggagatgaa ttccctccaa agagcaagct agatcccaca gtgtatggtg atcaaactag   60

tacaataacc aaagaacact tagagatcaa ccttggtgga ctctctgtgg aacaggcact   120

gagtggtaac agattgttca tattagatca ccatgatgca ttcatcgcat atctgaggaa   180

gatcaatgac cttcccactg caaagtctta tgccacaagg accatccttt tcttgaaaga   240

tgatggcacc ttaaagccat tggccatcga attaagtttg ccacatccta ggggagatga   300

gtttggtgcc gttagtagag tcgtcttgcc cgcagaccaa ggtgctgaaa gtacaatttg   360

gctaattgcc aaggcatatg ttgttgtcaa tgactcctgc tatcatcaac tcatgagcca   420

ctggttaaat actcatgctg tggatgaacc atttgcatag caacaacaag cattttagtg   480

tgctcaccct attat   495

<210>   4575
<211>   374
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065e01d1

<400>   4575

gataggagca caatactata cataaaaact gacacaacac cctattagat atgaaaaact   60

agatagcatc caattacaaa acttaagcat acataagaaa attatgcaca cataagtttg   120

cacgtttatt tgtcaatgag aggtacgttg gaaggaaaga aaaccacaca ccacacacca   180

cacactttca ttagatagag atgctgttgg gaattcctct gaaagtaagg ccttccccac   240

tggtaggaag aagcacagtg tagggcattt gcgccggtcc attacggttc ctaaggcttg   300

aattcttggt cctccctgag attttggcct caatttcctt cagcttggtt ccaaacttct   360

taaaggcttg aatt   374

<210>   4576
<211>   407
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065e02d1

<400>   4576

gattggagca catttctata cataaaaact tgacacaaca tccctattag atatgaaaaa   60

ctagatagca tccaattaca aaactttagg catacataaa aaaattatgc acacataagt   120

ttgcacgttt atttgtcaat gagaggtacg ttggaaggaa agaaaaccac acaccacaca   180

ccacacactt ttattagata gagatgctgg ggggaattcc tctgaaagta aggccttccc   240

cactggtagg aaaaagcaca gtgtagggca tttgcgccgg cccattacgg gtcctaaggc   300

ttgaattctt ggtcctccct gagaatttgg cctcaatttc cttcagcttg tttccaaact   360

tcttaaaggc ttgaattgcc tttgtgtcat cagcccaatt gggatgg   407

<210>   4577
<211>   518
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065e03d1

<400>   4577

aacacgttaa aatcatattt tattatctac atgtaattca acattaatta ttacaacttt   60

1933

```
ttaatactca aataggagta tcagcggcac gagcctctcc ctagtttcat tatgggaaat   120

gcactcaaag gaacttcata tccatgcttg aacatttgtc ccaatgtttt taaaaccatg   180

gaaatctggc cacggctcat gtaagctttg tacattatcc ataatgtttt ctttgagcat   240

ttaagcttga cattttccat ctcttcaagg acattatgca tttcgagtaa ggtcatctgt   300

gacccataca tgactagctt acaatgatat aaggatcggc agatactcca cccagagatt   360

tcngcacgtc tcacaaaatt ttctagcttt tctactgcat tacatcgatn ataagttgca   420

atnatgcgtc taaaataccc tnggttgtat agaagtccca tgctcaaatg cctcattata   480

gcattctcca ttttcgctaa ccaggcttcc ttggcata                           518
```

<210>   4578
<211>   378
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065e04d1

<400>   4578

```
aagaaaaaac agaaacgaat tatttttttt cagcagttcc cataagcgtt ttggtcgttc    60

ctttgtcagc aaattgaaaa aacaagaaag ccctgttcaa taaccaaccc aaattaaata   120

actggctttg ggggaacaac ctggggttct aggggggaaa acccccccc ttccttaggg    180

gttttacgg ggctttccac gacctttcc ttttctttta taaaaccctg gttaaatcta    240

tcataatggg ggaggtcagt agccttgaac gggcggtcgc ccaaaacttg aaacaaggcg   300

gcctggggaa gtactttttt ttcaagcagc aactctgcaa ttggaggaac ctgctccttg   360

gggtcctcga taagctga                                                 378
```

<210>   4579
<211>   452
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065e05d1

<400>   4579

```
ctctgattat ttctttgatt gtgcgagatc tttaaccata atctgcccgg gggcaacact    60

ccttgaggtg tgcatcaaag cccacataaa gagagattca aaaataaaaa atatatttaa   120
```

aattaacaga aagaaaaggc actatatgac agaatcgtga tgcaattcgg agaaagacct   180

acattccttg caaatgaaga gccatgtgta atattatatt ttcaatcgac ttcctagttt   240

acagggtcat ttagatacac tcaacctttt ttgctagtac attatatgaa cgcatgacca   300

gtatacagct gcattcatct tcaaagagta tccccacaat tgcctccaga gcattttaca   360

tgtgttgatg tatatagatc gtgactgctg ctttgaaaaa gtaaagcttc aaagcagaaa   420

aaaactccct cggtggattt atatatgatt tc   452

<210>   4580
<211>   576
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065e06a1

<400>   4580

gcaaaaatag tgtgccacaa acaataacaa aatcaatatg aagttcacta taatcacaat   60

attttttttct ttatttctag tcgactttgg ttttgcacaa caaggggatc ttgacataat   120

aagatttgga ggaaaaaccg aattcagata taagccaggc tttcttaagt gcctggactc   180

aagcatgtgc atcaacaact gctgtcaaaa ttgtgattcc agctggcaca tatcaaatgg   240

gtgcagttga tgtaaaaggt ccttgcaagg ctcctattga ggttcaagtt gatggaacaa   300

ttcaagcacc tacaaacgta gttaacctta aggggcaga ccaatggtta aaggttcaac   360

atgttaactc tttcaccctg tcagggaaag gagtttttga tggtcaaggt ccaactgctt   420

ggaaacaaaa tgattgtaca acaaacaaga actgccagat gctttgcatg aatttcggtt   480

ntaatttcct caataattca atggtccgtg accttacttc caaggatagc aaaaactttc   540

atgtgaatgt tgtggggtg cacaatatga catttg   576

<210>   4581
<211>   567
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065e06d1

<400>   4581

1935

```
cttatatcat tccatgacac tttctaaaat ttaaacttgg gtatgcatat ttgggacata    60

ttacaagctc cttaataata taaataaaga agacgtcctt tgttattgaa tagttgcgtt   120

gaagtattta tttacaaggg aatacaatta ctagctagac atctcctctt ttaatgggga   180

tggcttgcta actcaagaaa ggaaaaaacc ataagaacat tgttaaaaaa atgggcatta   240

ttgtagttgc tcattctagg ctgcacaagt aggagctttt cctgttatta cgggcttgac   300

gttagcacat ttagctgttg ttgcagctcc attgaatggt gagatcaaca tcagtcatct   360

ctacaccctc acatggtgca acactactac aaataaaaat cactccttct ttagttcctg   420

aagtgccctt aatgtttttg aaggaaacct tgcttatctt gatttttgac ggattctttt   480

tggagcactg gttccatgga caatactctt ggtctatgat ncacagggtt cgaaacattn   540

tccatggnta tatcttcaaa atgcata                                        567
```

```
<210>    4582
<211>    486
<212>    DNA
<213>    Glycine max

<223>    unsure at all n locations
<223>    Clone ID: jC-gmfl02220065e07a1

<400>    4582
```

```
ggaagaacca ccactacctt atccatttcc actcctcacc aagccacacc atggcctcaa    60

ccaacgccct ctcttcagct tccattctac gctctcccaa ccgccagtct ctgaccagaa   120

gagcgaacca caacggaaag agtaaattac cgtcaaccga atagccgttt ctccgtcaaa   180

gcctccgcca aagagattgc ctttgaccag cattcccgct ctgctatgca ggccggcatt   240

gacaagctcg ccgacgccgt cgggctcact cttgggccca gggggaggaa tgttgtgttg   300

gatgagtttg gaaagtctaa agtggataac gatggtgtca ccattgctcg cgccatcgag   360

nctncagatt ctatggaaat gccggtgcag ctcttattag agagggtgct agtaagacta   420

acgactctgc cggtgatggg acgaccacgg cttcggttct tgctcgcgag ataaataagc   480

tggggc                                                              486
```

```
<210>    4583
<211>    424
<212>    DNA
<213>    Glycine max
```

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065e07d1

<400>   4583

gaagaaaaat atcagatgac taccttattt caatatcatt aaacatacca tgactagaat   60

ccaatattat aacctctttt ctctcatcaa gccgaacaga tctaaaactg tttacaaata   120

catttttttt tattgaacag aattctaaca cttacgctct ttcatttttc tgcacaaaac   180

tgttctttgc cgtagcccta ataacctaaa aattaaacgg taaggccttg tggggcacca   240

gctacaggtg ccttgggctt aggttttttcc accacaatgg cctgtgtggt caacaccatt   300

ccagcaactg aagcagcatt ctgcaatgca caccttgtta ccttggcagg gtcgataact   360

ccagcctcca ctaaattctc atacctgtct accatagcat ttgaaccgac ctnccattca   420

ccac   424

<210>   4584
<211>   596
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065e08a1

<400>   4584

attaatatca ccacactttg tccatattct cattctcctc actcccatca tctttttccaa   60

tggcctccaa cggcgacgcc gttcatcccc acccttccaa aaagatcaaa ctcttcagca   120

atttccatta actcaactaa ttcctcgttt atcacccatg ccgagatcga atcggaattc   180

tcccaccacc accccacggt ggcgcgcctc aacaacggcg ccttcgggtg ctgcccggct   240

tccgtgatcg ccgtgcagcg cgagtggcag atgaagaacc tccggcaacc ggaccacttc   300

tacttcaacg acctcaagaa gggactcctt cactcccgca ccatcatcaa gaacctcgtc   360

aacgccgaac acgtggacga gatctccctc gtcgacaacg ccttcaccgn caccgncatc   420

gtncttcagc aagccgcctg ggccttccag gaagcaaaat tccagaaagg cgacgtggtc   480

ctcgtgctcc actaacgcct acgcgccgtc aagaaagcca tcgaggctac gtggtgcgcg   540

cccgagcacc cgtatcgaag tnccccttcc ctttcccgtc accttcaacg acgacg   596

1937

<210> 4585
<211> 311
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065e08d1

<400> 4585

cccacccaaa tcctgggata tttaaacaag gaaattttca acaaaccggg caaaaaaggg 60

caatcagaaa agggcaaact aaacatttgc aaattgtctc ccacatttaa aagggccaaa 120

tttgttttttg gggggttaat taaaactaaa agccgagctt gggctccccc aatttcaagc 180

cgaaaaaaaa gcccaggtaa cccctttttg cccaagttga ttaaccgcat tcctgaactt 240

ataaaagtcc taaaccttgg tgtaaacctg acgagaaatt cgggcatacc caataacaga 300

gccattttcc c 311

<210> 4586
<211> 595
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220065e09a1

<400> 4586

attttcaatt ccaactctct ctcatatgca attctccatc caacaaaagt ttctcatcat 60

ttctgtttcc cataagcaat taattaaaat actgaatttg gtataatttc tttctcaaat 120

ataatttagt tntacaatta ttttaatttc tttttccttg gattgtagcc ggggtttctt 180

gttgtgagag aaaaaccttt attctctgtt ttgggaacat ctggggtctc aatttagtgg 240

aagttaaatt ttgaaacttt ggacgaagat ggcgaattgg gtccaaaaga agatcactga 300

tccccttctt tccattatcc gaagaggagc tgaaccaaac cacttggctt tctctgctgc 360

tcttggtgtt acattgggac tatttctata tgtggtatgt tgtaattaac ccacctggat 420

ttatattgtc atttatgttg gatttgttta ttatacttgc cacttgacac tcanaatcat 480

gcttgtaact aagatcttat tgcttgcacc gatggtgatt gaatangata agcacttaca 540

gattaaatga tttnctgctt attaaaatgt acatgtgtca catagcggag tgaga 595

<210> 4587

<211>   528
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065e09d1

<400>   4587

gtgatgcatt tgctaggttg aatcagttta tacttaattt aaatatgcag ttgcttcaca   60

atcttgaaat cagattcagt tttgggatta tgttagtcaa atctgcattt tccatgagtc   120

gcatctctag agttaatgga aagacatagt tttggaaact agagagagag agagactaaa   180

cttatgctag atggctacca attctgaact gtggttatct agaggttgtg aggaaagact   240

gattaattta aaattgattg ttcaaacctc atggcaaaga gatgaatgat aatagagagc   300

caactgaaat cctatcagtc attaacctgg atgaacagct acttaccttt tctgatgaaa   360

accactttaa aatattctga caaagaaaat cagtacttta agcaacaacc aaatttcatt   420

tttttcggaa aggccaaaaa tttcaactta tcaacatgtt tatcattagg aattaattgt   480

tcccaaaaat ccccttttac catgttaaca attattatat attatgat   528

<210>   4588
<211>   548
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065e10a1

<400>   4588

ttgtgtttca gtattggttg ttttttttc ttttatgtca gtttgaactt tgaaggttcc   60

gtgacagatg ttgttacttg ttattgtttg ataaggtatt caaaattggg tggttttcga   120

ttgaactggg atgtccaagc cacctgttag gcatagcgga agaggaaggt caaagcaatg   180

tcactttgtt ggtttcttcc tcagccacca tggaaagtgt gtgcctgaat agctcaaaac   240

tgaaagagcg caactacatg gggttatctg attgttcatc tgtggacagc tccgcgccgt   300

ccttctcaga tgagactaag agcaatctga acctcaaggc tactgagctc agactggggc   360

ttccggggtc gcaatctccc gaacgagatt caaatctttg cttgagaagt tcgattcagt   420

ttgatgaaaa gccactgttt tctttgcatc ctgcaactga tgaacnacca ttctcatcaa   480

agcctgctgt tttgggaaac aaangagggt tctcagatgt catgagtgga ttcgccgagg   540

1939

```
<210>      4589
<211>      586
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065e10d1

<400>      4589

aacagtagaa ggtgcattac atatataata acttcttgtt ttttatcaca ccaagttgca   60

aacatagaag agatgatcca atttacaaac tacaaatcct tcaccacaac aggaacatga   120

gagcacataa aaaatataag aacctcccac agacaggttt ttggggtttt ataagttgtg   180

acaatcatga aaaaagctta ctgaatataa acatcatgac aacagaacac accgatagta   240

aataatatca tgatcaacaa ggcagcttta gtaccaaatt ctatccagtc caaacatgcc   300

ttaagttgtg cttccaagcc attatggccc ttgtgttgct ccctcacaca gccaagaaaa   360

cattttaacc cccaagcagt tagatggata gaagggtgtg atgagatgct taattctgcc   420

tagttcctgc tcttactttt ttcaacagct cttggtgcta gaccaatggc ttcagagctc   480

ttcataatcc ttagcctctt gcacgtctca gtaaacatct cccagggaac atcacccact   540

agcatccagt ctccatcttt atcctcgtaa gtagaacata ttctga                 586


<210>      4590
<211>      508
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065e11a1

<400>      4590

agaaaaccta gtgagagtaa gcactcattg atcagcaaca atggcagcct actcaagcca   60

tgctttgaaa accatccctt tttcttcctt tgtgaagcct gtcagtacca aaccaacatc   120

atttcttcac accttcacct accagacctt tcttaccctt cacctcacca aaccactctc   180

tcaccaaaaa tctcaagctg aactccactt tgccacactt ttgcttgtct tcagttccca   240

agaaatcttt cacttgtaga agccaggctg agcctgttga ctcagaaaaa gtccaagaac   300

tgagtgtgta tgagatcaac gagcgtgacc gtggaagccc cgtttatctt cgattgagct   360
```

ataaaagtgt caattcgctt ggtgatttag tcccctttag caacaagttg tacactggag 420

atttgcaaaa gcgcattggg ataacatctg gtatctgtat tttgatccaa aacatagctg 480

aaaagaaggc gacaggtatg aagcaatc 508

<210>   4591
<211>   425
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065e11d1

<400>   4591

ggcaaacata attatacttc ctttccttat tcattatatt tgcttaaaca ccactaactg 60

aataatgtca agcttttcgt taaatagaaa ctccaccact acaaaaccca tcatagtccc 120

cacttgttat tattattcag taacttaaat catactacta caaaggccaa agcaaataca 180

aaaaaagttg atgaattagt cggtgaagcc agcaatggta gcattgggct caagggcctt 240

agcagcaggg gaaggttcaa cagatggaat tggctcaaca gtcttgacaa gaagctcctg 300

aggcaaatcc ttgataccct ttagaaaaat gtgtacaaaa tcttgaaagg atacacaatc 360

tgacgcagct tcacttgacc tttaacaccc tcaaatatgc cagacccacc agtcacagcc 420

aatat 425

<210>   4592
<211>   514
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065e12a1

<400>   4592

caaacccgca atttcacttc ccctcttcca agagccaccg gatcctgcaa ttcctctctc 60

tattagggtg gtgcagcagt gatgggcaaa ttccagcttc gtctatattg gagggttttt 120

aggcagaggg agtagattat tggaataagg gagacacatg gtgctttgat agcttttgcg 180

aatttgtttt atctttgact gcgttctgaa aatggaaaat cctgacgttg aaaagtctga 240

agaaaccaat agacaaattg acagtaacac aaaatctaat tctaaacagc agagcgtaga 300

```
gaaagctaat gaacaccctg attggttacc tgatggctgg aacgtggaag tcagaacccg      360

taaaagtggt gtacacatgg ngatctggat atnaagtgtt acattgagcc attgaaagga      420

tacaaattct tctccaaccg gaggtattac gatatctcga aactgtaaag gacaacagtt      480

gcacttccaa gaggggaaga aatgcagtaa catg                                  514


<210>       4593
<211>       517
<212>       DNA
<213>       Glycine max

<223>       unsure at all n locations
<223>       Clone ID: jC-gmfl02220065e12d1

<400>       4593

gaacgtgcct gggatttct gtccctgctt cctgcaacag tgtcaagcaa attgttttca       60

ctgcctccgc ttcttcctgt aacattgtca accaaagttt tttgaatatc agtttcaggg      120

actgtagtgg tgccttttcc tgtagcattg tcaaccaaag attttggaat atcagtttca      180

gggatggtag tggcgccttt tcccgtaaca ttgtcaacca agttttttgg tatatcagtt      240

tcagctggtg gtaacacacc agtgagggta ttgattgcat attccaaact tgggtcagac      300

caggagtagt gaaatgcaaa ggacagctga gattctgatt tctcatcctc catttcttca      360

tttttcacgtt tccccagctg aggttctgat tttttccttt tatttgctga ctttccattt    420

gttggtgctt gatctgcaag cactgtaact ggcccacact cactttgctg caattntgct      480

ttggagttca ttgactcatg ttcaattgca gctaatc                               517


<210>       4594
<211>       341
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220065f01a1

<400>       4594

attaaactca ggaacgtgtg ctcagcgtga aaataagtt acattaggcc tatgaaatag        60

taaatagtaa gtagtaataa aatacatatt gggtcttaga gttctctagt aaaaatctaa      120

agtctaaaac ctatttcata aaggaaaccc tcatgcttta tccattcctc tttttctttc      180

ttctagtcat ctaatccctt ctttcatctg cattagtcct tgaagtgtaa aacctttgat      240
```

1942

tataagagag ctaaatctcc attgttagga gtttgttaga ccaattctta taatgtaact 300

atgtctatta tctatttaac gtatctaagg gtctattaaa a 341


```
<210>      4595
<211>      316
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065f01d1

<400>      4595
```

aaaaggaaac caaaaaccgg aaaaaggaaa aaagcccagg gcccctttaa agaaggggggc 60

aaacaaaccc caaaaagggg ggaattaccc ctcttaaaaa aaggggggta cccctttggg 120

ggccaaggcc caggaaaggg ggggttaggg ggctacaaaa aagaaaaggg gggggggggaa 180

aggccggggg ggctccttta ggaaaagggg ttaaaccttg aaattttccg ggggaacctt 240

aagaccccat gggggtttaa accctccctg ccagttcctt tttaaagggc ccaggggggac 300

ttttttttca cggggg 316


```
<210>      4596
<211>      55
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220065f02d1

<400>      4596
```

ggggnnnnnn nnaggagctg gcagtttcac actcagganc ncggtgcgga attat 55


```
<210>      4597
<211>      572
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065f03d1

<400>      4597
```

gaagcacgct ctaaattgtt agataggtaa atgatcaacg catatattca tacaaattca 60

aacataaggc agctttcaag agaagaaatt aaaaggtaac tggaaacctg cgaggaatat 120

taattcccat aggttcataa atcaattcct ctagatttcc aatataaaat ggttacaatt 180

gttattttgg agccatgagt ttgaacccta tcatcagacg ccactagcat ataatcgggt 240

ccattccttc gctgtttcga cagcctcagc ctcattagat ttccaatgct tggcaatgtt 300

ctcagaaagt ggatcatctg ggtttggtgc acttaataga gcttgaatgc ttagtagaac 360

aagtgcggat ctgaagggca ggactccact tatctttcag aatatcaaga caaatcctgc 420

caagcttatc aatgtttgga tgatatattt ttgttagaaa cctaaccttt ggagcagcca 480

ttggatattc ttctggcaaa atagttctaa ctgaaaactc ctccttcata gggcactggg 540

ttggccccag gatcatcaca ttgaaatatc gc 572

<210>   4598
<211>   491
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220065f04d1

<400>   4598

atgatcgtta ttatgtctgt gatacacaca attaaggcca taatatactt atgtgattta 60

caacaacttc tagcttattt tatacatcat gccaacccaa ctaggagcaa ttttcatcat 120

acaattacac ttatctttaa tcatcattca tcaatactgg catcagcaat acgctctaaa 180

ctctgaagca tgacaaggtg gtagtcacca gggaccatat tgttatgcaa tttatgccac 240

aattggataa gatgcacaag ttgcaacacc acacatgttc ttccccaatt ccatcttgaa 300

gtagccattt tcaccccagc tttctcccca tgaattttt atgagccaat atgggacacc 360

attttcaact ccatatccaa cagcaagaac ggcatggttc acatcctggg aagtgctaca 420

caagtgtcac tagtgaaaac tcctttctcg tagaaatggg aacccattca ccacctgaag 480

gccacactaa c 491

<210>   4599
<211>   173
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220065f05d1

<400>   4599

```
acactcaaca ataatcatta attcacaaaa caattaacac tctgaaaaaa tacatacata    60

ttatgaaatt atcaaaattt taaccattaa tttcctaatc atcaattatc atcccacagt   120

ttatcacctt tgaaagtcta attaaaatga taattcattt gttacaactc tcg          173


<210>      4600
<211>      501
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065f06a1

<400>      4600

cttcttcttt cgttcttcat tgttcattca atttcttctc tcttcatctc accgaacaaa    60

tcattcaatt gcaatcatct atggcgtctt tcgacccgag cgtagattct agtaattccg   120

acccgttgcg agaatccaat cacaagaagc gcagaaaaat cggagaccac gccgccgccg   180

atcaaaattc ggctgccgcc tccccgtgga gatccgaaga ggagcagcgg atctactccc   240

gccgcctcgt ggaggctctc cgccgcactg cgtcatcggc ggccaagcct agagccgccg   300

gccaggtccg cgagaccgcc gaccgcgtcc tcgccgccac cgccagaggc cgaacacggt   360

ggagccgcgc gattctcagc cgctggagga agctccgcac gcagcacaag aaggcgaaga   420

agaaggaggc atcgtccatt aactgtttga agagaacgag gattggcaac ggagagagga   480

ggaaccggtt accggctgtg c                                            501


<210>      4601
<211>      406
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065f06d1

<400>      4601

aggggaactc aaaaaaagga ggaataagca aatggcatgt acagtgtaca cgataaaata    60

catgaatctg aaaaccaata aaaacgattt aataattaaa aaataaaata agaaaaacac   120

ctggcgcaat ataacctagg cgcggggggtc aactaaacgt gccgccggcg aaacttgccg   180

gcgcggcgac ggcgaatatt tcggcgagag ccgtcatggc tcgcacttgc atttccaagg   240

gggagatata gtccgtggct ttttccaaaa ggtttggaaa cgaaaccttt cggcaaccgg   300
```

gaaccaaccg ggtgaggacg cgcgcttttt tttgtacagc cggtaaccgg ttcctcctct 360

tttcgttgcc aatcctcgtt ctcttcaaac agttaatgga cgatgc   406

<210>   4602
<211>   454
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065f07a1

<400>   4602

cctctacggc atatcctttc tccttcttcc tgtatcctct gacttaattt actacaaaca 60

ggcaacaagg ctcaaggaat tagtattgtt tccatcatgg gaatttgttt gagcacccaa 120

aattgaagct gggctgaatt caaagcatgt gagtgtcgat gcaaaagatc tcagcagtcc 180

aagcagtaaa attacaaaag atctcagcaa tccaattagc aataaaatta cagaagatct 240

cagcacacca attagcaata aaattacaga agatctcagc acaccaatta gcaataaaat 300

tacagaagat ctcagcacac caattagcaa taaaattaca gaagatctca gcacaccaat 360

tagtaaggtc tcagagatct tagtgcctct gacttctcag atgagggtga gatcttgcag 420

tcatccaatc tgaagacttt agtttgacag aact   454

<210>   4603
<211>   480
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065f07d1

<400>   4603

aacaaaataa agtaggaaac tttacaccaa tatatcaaaa acaacaaaat tgagctaacc 60

agagccacat aagaaagtac ctgcagttcc agccattttg actatatata taacaaacag 120

aacctgaaat atatacatgc aatgtactaa gatatgtaaa acctattaga taacatgtgt 180

gcatgatatg aacatgtttg agttcatgtg gaaacatgca gctttcaagg atgtgtattt 240

gcaatgtcac gtgagagcgg ggaagcagaa gcagtggcaa ttctaccatg ggtaaaatga 300

tcagcacttt ttctacgatt ttgtttcaca tggggggacct ggagctgctc caaatccgtg 360

gcaacctcgt ccatggttgg tctcaacttt gattctattg caaggcatcg cagaaggagg 420

1946

gtagctacct tacatgcctc atctaattca tattggcctt caagacgatt atccaacaca   480

<210>   4604
<211>   540
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065f08a1

<400>   4604

cttgaagagt gtgtctatgt cttctaggag gggttgcatt taccaccact taaggccaac   60

ggattatcgt tgctccaaag agtcattccc aagttgatca aggctgctaa tgatactcag   120

aatattttat cgcctttgat ggccccagaa acatttaaaa gggataagtt cttttggttt   180

tcagatgtgg aatttgctag ggagactttg gcaggtgtca acccatatag catccaattg   240

gttaaggaat ggcctttaac aagtaaacta gacccgcaaa tctatggtcc acaggaatca   300

acaataacta gggaagtcat tgagccacaa attatcactt atggaacaat tgaagaggcc   360

cttaaagaaa agaagttgtt catgctggat taccatgatt tattcttacc atatgtaagc   420

aaagtgagaa aaattaaggg caccacatta tatgggatca cgaacattat tcttcctcac   480

tgatcaaggg atattaaagc cattagctat tgagctcact agaccaccta tggatggaaa   540

<210>   4605
<211>   442
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065f08d1

<400>   4605

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt   60

tttttttttt tttttttttt tttttttttt taaaccaaaa aacccgggct ggggcccggg   120

gggaaaaaca atttttttcc taaaagaaaa accagaaggg ggattttccg gggccaaaaa   180

aaaatcgggg gccaaaaaag ggaaaaaagg gaaaaaccct ggggcccttt tttttttttt   240

tttgggcccc ttggggggcc ctaacaaaaa aaaaaaaggg gtttaattgg ggcctaataa   300

aaacccccaa ctttaaaaag aattggtttt gggaacccct tttccaggga cccccggccc   360

cgaaaagggg ttcaaaaccc caaagggggat ttttcccccc cccgggggggg tcttaaaaaa   420

acaatttcca ttcccggggg tt 442

tcttgttgtt gaggagttgc aacctgctga gtaccttcac ttcaaggaag aacttgttga   60

tggaagttct aatggcaact ttgtgcttga gttggacttt gaaccattca atgcagcctt   120

tcctcggccc actcttaaca aggtcaattg gaaatggtgt gcagttcctc aaccgccacc   180

tttctgccaa actcttccac gacaaggaga gcttgcaccc acttttggaa ttcctcaggc   240

tttacatcgt caaaggaaag actttgatgt tgaatgacag aattcaaaac ccagatgcac   300

tccaacatgt tctgaagaaa gctgaagagt ttttgggcac aaagcacttc tgaaactccc   360

tactcagaat ttgagcacaa gttccaacat attggtttgc agagagggtg agggccacaa   420

ctcccagcgt gttcttgagt caattcaact tctcttggat cttcttgagg cccctg   476

gaaaaaggca cggcttaaaa ttgaattgag gggtaaaaca ccccaattcg aagcttttcc   60

aatcaagatt caaatcatgc aaaagaaaaa aagtaaaagg cttttttttt tttccttttt   120

tttctctctc tgcctcttat cgaaagctta atcacaaaat taaaatcatc agggacatat   180

tatttataga actcaagtaa gacaaactcc aaatgaaaaa caaaaagccg gttcctccat   240

ttttttatcc aactcttcat cctcagttta ctcaacagca aggggcacag actcggccaa   300

tttgcggtac ttgagagcat agaacatctc gagatagcgg cggctctcac ggcggtcaag   360

gttagacaca tgcttccaga agccatagac accagtgaga gtgagaagcc tttgtgagta   420

aatttgc   427

<210>   4608
<211>   211
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065f10a1

<400>   4608

tgccattaaa atctgtcttt gtttttccta tagttccaaa gagatttttg tgcaaagctg   60

aacttcatct tcgtgaattc taattatata atatatactc atttccaatc caatgccatt   120

ttatattctt ctaaaaaaaa aacacttgtt aagaaaaaaa aaaaagaaa ggggcggccg   180

tgcactttttg aagctcgtct acccgggaat t   211

<210>   4609
<211>   282
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065f10d1

<400>   4609

cataaaaaaa aataaaatgg cattggatag gaaaagaggc aaacatagaa aagaagaatc   60

tacgaacaag aaacaaaacc ttgaccacaa aagggttcgg gaaatctctg gaaaaaaaaa   120

gaagaattcc acggacaaga agccggattt ccaaaaaaag tacccgggga aacaaaggga   180

aaagaatttt aatgtggtgg cgaaataaaa cccactgggc ggataattac aacgggcgag   240

aaggggaaaa acctggcgat aaccaaccta aacaaacatg cc   282

<210>   4610
<211>   571
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065f11a1

<400>   4610

ggaaaaatgg aaagtcccaa atcattcaga cacagcactc cgtgactcat cactccctcc   60

tgatgattct cagcattctt ataaaaagct gaagacaata tctgatgatg tagttactgg   120

caaatagtga ttctagcaag aacataaatt ttggtgcatg tgatgaaagt atacatacaa   180

1949

```
ttactagtgg acttttggac aaatctgtta aagataattc aaataaatta atagattctt    240

ctagcacttg ctgtagtgat gagcaggaca aaagtattgg ggatggacca aaagatccta    300

caaataagac agaatttaag aagttgtcca attcaatgga agggaaagtt gatgggatgc    360

taaggggttt cagattggaa acctctggaa aaagaattat acttaagggg agtagaaatg    420

tttggcagaa acagttgcct catagcaagg aacttacttt ctggcctgaa gacttgtatg    480

gaaatatcta gttacatgca ttctggagga gtgtcatgcc ccatggatct aatgtgctcc    540

tagttcatca tgaagacagg gaaaattgat g                                    571
```

```
<210>      4611
<211>      540
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065f11d1

<400>      4611

aagaaagaag aaaataacat ttatcaacgc acaagtaact taatctttct ctttacatgt     60

tcaacctaga aacatcctat ttattaggaa gccaaaaaaa aaagctagaa aaattcctac    120

aatcaaagat aatatttttt aagtttgatg cccaactaga ctatagaaat accaattctt    180

cagaatataa tgatgctggt tatataattt ttttttaaaa aaattggtca taacctattg    240

gtataataca aaatcacaac ttatcaaaac agttggagcc atctggtata ttacatatgg    300

aaaactttat tttagcttta ccaatcctcc cctcacctcc aaaaagaaaa taacaaaaag    360

atggtcaaga cacaagaatg taggataaag aagatggaaa cagaaaggct tgtaattctc    420

actgtgcact ctgcatcaaa ttttcccttg tcttccatga ttgaactagg agcaacaata    480

gatccatggg gcattgacac tcctccagaa tgcatgtaac tagatatttc catacaagtc    540
```

```
<210>      4612
<211>      412
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065f12a1

<400>      4612

tcacaaaata gtagtattac agtttatcgt taatttctcc cagattcgct ttgtcgtgtc     60
```

tcgagcatcc ttgatgtcca gggaaatcca tatttgtcct tttttctgcg tactttcatc   120

gaattattgc ttgtagctct ataccaactt cttatatatc ccatcctcca catctacgcc   180

tgaatcatcg tccaactatt agttcctctc tctgcgttca tatcgcaaca tgcttccctt   240

ttcaactctc tttcaaaccc cgttaaccac cgagtattgg tacaaccacc ccacaacaac   300

acttctagcg ttcttgctca tctcccttgt tacttgctat gcatggctca agcccaaggc   360

ccaaaagctt gcaccgggcc catcgggcct tcctttcttc gggaaccttc ta   412

<210>   4613
<211>   471
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220065f12d1

<400>   4613

acaaaataat taatatagtg ttgagcgttg aataatggat acaagtatat tatagtaaac   60

tctattgata aagatctggg ttggataacc gtggggtggg gatagcaacc aaaggtattt   120

tcttttgag aacaattcca aatttctctg atacctctaa cttttctcct tggggtactg   180

tccaatcaaa taagtgtacg agtgtggcaa gaaaatgcaa aaccgtcttc tcagccattg   240

ctattcctgc acaaattctt cttccagatc caaagggggaa atagttgaag tcattgccac   300

tgaaatccaa ttttgcatct aagaatcttg taggatcaaa ttcgagtgat ttcttccaaa   360

ttgaagggtc tctatgaata gcccacacat tcacaaacac ccgagacccc tttgggattg   420

tgtaacctcc caaatagtgg tttcgctagg acaatgaggt actagagtgg a   471

<210>   4614
<211>   537
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220065g01a1

<400>   4614

tgtgtttgcg gctgaggatt cgaacgagc gaccttcttc gtttctcgca aagtttaagt   60

catcatgggt aaggaaaaga ctcacatcaa cattgtcgtc attggacatg tcgactctgg   120

gaagtcaact accactggtc atttgatcta caagcttgga ggtattgaca agcgtgtgat   180

tgagaggttc gagaaggagg ctgctgagat gaacaagagg tcattcaagt atgcctgggt   240

gcttgacaag ctcaaggctg agcgcgaaag aggaattacc attgatattg ctttgtggaa   300

gtttgaaacc accaagtact actgcacagt catcgatgcc cccggacatc gtgactttat   360

caagaacatg attactggta cctcccaggc tgattgtgct gtccttatca ttgactccac   420

cactgggggt tttgaagctt ggatttctaa ggatggacag actcgtgagc atgctcttct   480

tgctttaccc ttggtgtgaa cagatgatct gtgctgtaca agatgatgcc ctacccc   537

<210>   4615
<211>   435
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220065g01d1

<400>   4615

accatcaaaa caaaaaacag tactcatcaa aaacaaacag caatgaaaat tgaccaccgc   60

cgatcaagaa cctagttttg aaagttacgg ctacatgaaa tcggcagaaa cttaaaaata   120

taacttaaac aaaacaccta agactctgca aggataaaac tactataaag gagtaaccac   180

gatgatgatc acatgtgcta gcaaaattgc ccaaatgcaa tcacttcttc ttggcagcgg   240

ccttggtgac cttggctccg gtggggtctt tcttctcaac actcttgatg actccgacag   300

ccacagtttg acgcatgtcc ctcacagcaa aacgaccaag gggaggatac tcagagaaag   360

tttcaaccac catgggcttg gttggaatca tcttaaccat acctgcatca ccattcttca   420

aaaatttggg ctcct   435

<210>   4616
<211>   552
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220065g02d1

<400>   4616

cacaccaaag gatctgattc attaaaagca atagattctt cacaaccaca caccactcac   60

ttgacatata tggaacacat acataatcca tatagcctta ccttaggggg ggggcatttc   120

ttaacttttta tttaatgcac aaacataaca ggggcaggaa ggaaaaccac aaaattaaaa   180

```
cgaagatcat atagctgtta ataataacaa caacacatgc aacataaaaa ccacatgcag    240

ttgtggtagt ggcatcttct tcagattgga aacgcctcaa tgatggaagg gagagcgttg    300

atcttgatga atgttgtaac gcgcgaaacc ggtttccttg aacagccact tccagttctc    360

ttcggtcctc tctttgccac cggcgttgtg agcgagaagc atcatgtcga atgcgatgcc    420

aacgtctgtg aagaagttcg ttgccttcgg gtcgaagaac gtgatccacg attatgactt    480

ttcctgtctt ctctggtatt gccttcctgc agttcttaag atcttgatgc agtgctcgtc    540

gctccagtca tg                                                        552


          <210>      4617
          <211>      486
          <212>      DNA
          <213>      Glycine max

          <223>      Clone ID: jC-gmfl02220065g03d1

          <400>      4617

gcaaagaaat atccatgaac tataattaca aacttcctag ggtattattt acacgcccca     60

taggccataa atggctttat ttgaatttta tcttcccata tcttacagtt taaaatactc    120

actcaagaat ttggtcaact cccagacatt cacaacaata ataacttga ataaaaagaa    180

catatacgaa cgaagttgtc gagcaggcag agacgagaat tcacaatttc acaccatctg    240

gacccaaata ccgtggcttg gaacttcttg atggaccaca aacagcagat agaaacccgg    300

tggcgcaaga acagcggaag ccggcgcggt aacttcacct cgtgcgttga ttctccaacc    360

ccactaaatg gtgcggcttc agcaccaaca gcctctgatt atggaaacga gtggcgtgtt    420

aaatggcggc gccagcatgg taacagacac cgaatcccaa ccaaagtcgc gctcaccttа    480

aaccga                                                               486


          <210>      4618
          <211>      536
          <212>      DNA
          <213>      Glycine max

          <223>      Clone ID: jC-gmfl02220065g04d1

          <400>      4618

atcaaaaaaa aaaaactgca ctgataggaa ataaaacaga ccttttacaa aggtgtataa     60
```

1953

ccagaacaaa taggaaaggg acaatcaatg agggtaactg acaaatctag tcaacaaaag   120

aaatgctgct gctatcagca actaacatga aaaacaaaaa atcacatagc aacactgcaa   180

agaacaggca atcgacatga gaactactat tatagatatg gaggaatgca aacttggcaa   240

gaatgtggtt gctggcttgc tgcttttta ctaacatcat ccaaaactgc tgctactgga   300

gacattatca ccgttagacc atcttttgaa ggcacccggt actaaatttc taccagccaa   360

aaacccaaac ctctgatctt aacattgtca atcggttgtt attattactt gaagaagctt   420

cagcatcagc ctcagccaca gccacggttg tttggttaat ggttggtaga aactctacag   480

tattatcccg agctccgcca atcccatcac ttgcactccc atccaaagct ttaact   536

<210>   4619
<211>   432
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065g05d1

<400>   4619

gataggaaat acataatatc tctttatgag ttacacactt tattggaaac tagtaaccat   60

atatgtatta ccacacacac atatataagt agttgaagca tatagataat tttcaatccg   120

aaagaagctc tattttgatg cctctgattt taacacgccc tttcccatat ctcggaacca   180

gcgtcaccct aacactgtca tcatcttccg cttccaattc ttccaacaaa tccgtaagtc   240

ccagcctcaa acaagtaatg atgtccttgt ttttgtgcat atgtgaatga ggcacactca   300

caaagcttcc tgcaaattct gtattatctg gtcgaatctg cttatcatct tcatcattga   360

taaacacatc aaatttacag ggtgtgtttc tctcaaactc aatcccttca atcaccaaaa   420

cctcttcctc ct   432

<210>   4620
<211>   596
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065g06a1

<400>   4620

gttgggtctt cttactataa agaactgttt ttatcttgta tattttcctg tttctttcaa   60

1954

```
gataatttga ctatcaattt ccatggtaat tgaatatctt ggttagtttt ctgactagtg    120

aatatgtggt cgcaggtcct gcaccactat acgtgctatg tttccagtaa ctgtgcttaa    180

gaacctaact tgttttgtgt ataaagacgc tcagagacca gaccttcctt tttttcattt    240

tattagtttt ttgtttaata cttttttctt cctaattgtt attattcttt ctattttcta    300

tattgggtat agccagatgt cagtctcgga agtgttgtat aaattgaaga tggggctagg    360

aggatgagtt tggagtaaat cacatgatat ttgngaggtg aatggctgaa attgctgctc    420

acgctgctac cttgtgctat gttgtggctg ttgctgtgct gagatcctgt gaatgggact    480

aaggttatan atgaacagtg aggagctgat acaatgatgg cagtgaaaga gatttgggtt    540

gtggtatgga gttgcgatgg atggtcgtat gtgtacaata gatgaacaac atgatg        596
```

<210>   4621
<211>   339
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065g06d1

<400>   4621

```
accaaacccc gccaaggagg gggttctaaa aaaaacacaa gggggtgggc acccccccca     60

agaaaggaaa aaaaagggc cccccccctt ttaaaacccg ggggaaaaaa atggggggggg    120

gggaaaaaaa aacaaaaacc ctaaaaaaaa aattgccccc catcccccca ccaggggggg    180

caacatttgg ggcaaaaaaa agcgcctttg gggataacaa gaaagaaacc ccaagtcttt    240

ttacgggcaa aatagggg aa ccccccccg ggggaaaaaa aaaacccag cccgaacagg    300

agggacttat caaagaacag cgcccccaaa tgcaaaggg                           339
```

<210>   4622
<211>   523
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065g07a1

<400>   4622

```
caaatatgat ccagactcat tttactcttt aacatacttt tggaactttc catgggaaat     60

tcaaacatac ccagtcatt caacccaaaa gactttaca ccatcgcttg atgaactcat    120
```

```
cggcgaaccc tatttcacca ggttttcttc tgaatgatga atcaaagtga ggtaaccagg    180

aagagacttt tttcacttgc cctaagatta tggatatta gaaggagtgg tagtatagag    240

gagagaacat atcaatagtg cttccgcaat gaccacatca acattagtgg caacattctg    300

ctagtggagg tgcacttcac atgggcaata tgagaatggt aatatggttt gcatatggaa    360

tcatagaaat aaatgggttt tttttttttt gggaaagaca tttgataagg atgaactaaa    420

acaacaattc ctattcactg cttggtcctg gttaaatagc caccacacaa attttgtata    480

ctccttccta caatggtcga ttaacccttg gcagtgctta ccg                    523
```

```
<210>      4623
<211>      597
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065g07d1

<400>      4623
```

```
ataaaatgtc ataaaaacat tttagtaacc cttatttata ttttggcatc gaatgttgca    60

aaacgcatac tttatttgta gtgtaacacc ggcagttgca attcataaca gacaaaacat    120

tctccatact tagtcgatag aaatcacaca acacaagaat atgaagtatt tctatcttca    180

tgtgtttgcc aaccaataaa tgtggtagac aagtagcaat gcacaccctc cctttaaata    240

tcaataccat caaacccaac cccccgttag cgtctctccg gtaagcactg ccaagggtta    300

atcgaccatt gtaggaagga gtatacaaaa tttgtgtggt ggctatttaa ccaggaccaa    360

gcagtgaata ggaattgttg ttttagttca tccttatcaa atgtctttcc caaaaaaaaa    420

aaaacccatt tatttctatg attccatatg caaaccatat taccattctc atattgccca    480

tgtgaagtgc acctccacta gcagaatgtt gccactaatg ttgatgtggt cattgcggaa    540

gcactattga tatgttctct cctctatact accactcctt ctaaatatcc ataatct        597
```

```
<210>      4624
<211>      511
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220065g08a1

<400>      4624
```

```
cttatctatc ttcacctcca tcttttaaca gttcccctcg aaacttctga agatgggtgg    60

cattgcattc ggacgcttgg atgattcttt cagtttaacc tcaatcaagg cctatattgc   120

tgagttccat tcaccctgct ctttgttttt gccggtgttg gttcagccat agcctatggt   180

aagttgacat cagatgcagc acttgatcct gctgggttac tggcagttgc tatttgccac   240

ggttttgcac tctttgttgc agtttctgtt ggtgccaaca tctctggtgg ccatgtcaac   300

cctgctgtga cttttggatt ggctcttggt ggccacatca ccatcctcac tggcttcttc   360

tactggattg cacagcttct tggctccatc gtggcatgtt ttcttctcaa ctatgtcaca   420

ggaggcttgc caactccaat ccacagtgtg gcttctgggg ttggagctgt tgaaggagtt   480

gtgaccgaga tcatcatcac attttgtttg g                                  511
```

<210>   4625
<211>   385
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065g08d1

<400>   4625

```
atatatataa agcacttctg cacaccacca acctcttgaa ttctcaccaa attaaacagt    60

agtagcacac tttacaaata aattaagaga agaaaaaaaa agcatagaat ggagagagag   120

aaaaaaaaga gagatagaaa aagaaagaaa agcaagaact gcttttcctc cttttattat   180

caagaaacat gaattacaaa ggccatgact tgaatcagat caaaattcac tggaaagagg   240

tgcatggtca gagcgaatga agacattgcc gtagataagg ccagccaaac caccaccaat   300

aagaggtcca acccagtaga tccagttgtc atggaagtca ccactaacaa ctgcaggccc   360

aaaggagcgt gccgggttca tcgag                                         385
```

<210>   4626
<211>   543
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065g09a1

<400>   4626

gctcaactcc ttcccccaag ccttttggca tttccatgat gacacaagat tcatcagagg   60

tgttggaaaa acatgcaagc tcaggctctg ttgtgagggg gagtagtgaa tatattagac   120

tggttcatat tcgatgaacc aaagggcggt tgaagctgaa accttgctgc ctcgagcaga   180

atcaagaatc aagtctttct ggtggtggat gaaatccttt ttatggtgtg ttatctttgt   240

gttccttgct tttattcttg agaaatgggg agtgtcactt ttttttgaaa aggttcttta   300

cccaatcatg gaatgggaag ctactgcctt tggccgncca gttcttgctt tagtactagt   360

tgcctctctg gctttattcc gcgtagttct taatcccttc tggcccctnc atgtggctgg   420

ctgggatgat ttttggttat ggcctttgct tcgttatata atggttggaa caaccattgn   480

gatggtgctg ccatacttaa ttgggctact gttccgtgac cgaattcata atggtttaag   540

aga   543

<210>   4627
<211>   204
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065g09d1

<400>   4627

gaaaaccaaa aggaaaaaat attattaatg taatcctaaa gcaagttgta atacacgagt   60

atatactgtc acgaaatttt tggcaaacta agctgtttag gcctttcaag gggaagcttc   120

tccatctcta cagaaacaga ggtaacttca tcattcaact ctgccatttt gagttcattt   180

agagtccttt ttgcgtagac agtg   204

<210>   4628
<211>   419
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065g10a1

<400>   4628

tttttgagga gttggtgagg gagttgtttc ctaaattggc caatcatctg gattatctgg   60

gagtgcaggt ggcatgggtt actggaccat ggttcctgtc catttttgtg aacatgcttc   120

cttgggaaaa gtgttcttcg aggggggga tgtgcttctt tttgaaggaa accgagtcat   180

gctctttaga actgcagttg ctttaatgga gctatatggt cctgcgttgg taacaacaaa   240

ggatgctgga gatgcagtta ctttacttca gtcgttggct ggctccacat ttgatagcag   300

tcagcttgta ctgacagctt gcatgggtta ccaaaatata aatgaaactc gtttgcagca   360

gttgaggaaa taaacatcgc cagctgtaat agctttcatt gaagaaagat caaaagggc   419

<210>   4629
<211>   518
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065g10d1

<400>   4629

actataaata aacgagagat gtattacagt tgacctcgac cgttcactta ctttccaatt   60

actattattc tattacataa taaagaacaa acaattaatg aatatgaaat tatatgttca   120

ccctaaacaa aaattacaga caaggaagaa gaaactaact tcttgctcgt caaattgtct   180

tgagtaggat ataaagaaaa tctaggcact gacttctttt ctactctcat cctgtacttt   240

aaggccattg acgtcttgtt cactgatcgt attttgttcc tcaacgctgg gatttccctc   300

agctggctct ntcattagtg ggtttcccct tgtttcgatc tcgccatcca agtccaaatg   360

gacgagaaag caaacttatc ctcctagcag ggatatccgg ctcttgattg tttctcgata   420

ccggagaatc tgactgtgaa gatcgtggag attgtagcac tttaacttgg ccagattggt   480

actgcaatgt agcctncagc atagattctg ccataact   518

<210>   4630
<211>   513
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065g11a1

<400>   4630

tgcacctgct ccgacacctt tggtcaacac gaccaatgag gattcccagt ttccagttga   60

aaatggcaaa aggcatttgt ctgaagaaga aatgaagatc aagacaagga gagagattgc   120

aggcccttgg ggtgcagctt ggtaagatga atattgctgc atgggcaagc aaagatgagc   180

aggaaaagaa caaatcttct ccccgggaca tgagtgtgca agaacaggag agaattgaat   240

1959

ttgaaaaacg tgcagctctg tgggaggaag ctgagaaatc taaacatact gcaagattta   300

agcgagagga aatcaaaatt caagcatggg aaagtcagca aaaggcaaaa ttagaagcag   360

aaatgagaag aattgaggcc aaagttgagc aaatgagagc ccagacacat gcaaaaatgg   420

taaaaaagat tgctatggcg aggcaaagat cggaagaaaa acgtgcagca gctgaagcta   480

gaaaaaatcg agaagcagaa agaactgtgg ctc   513

<210>   4631
<211>   303
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065g11d1

<400>   4631

aaacaaaaaa aaaaaatttt tttttttttt ttttttaaaa aaaaaaacag gttgggggggt   60

ggaaaaaacc cccccgcaaa aaattttggg gcccccccgg ggggggaaaa aaaaaggggg   120

tgaaagaacc caaaaaaaaa aaccgccctt tttgggcccc cccttctccc ccggggaaaa   180

aaaaaagccc ctttggggggg gggggggcttt tttttaaaa aggggggggtg ggggtttttt   240

tgcccccccc cccccacaaa tgttttgggg gagggggcct cccctggtg gggaaagttt   300

ttt   303

<210>   4632
<211>   393
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065g12a1

<400>   4632

atctccacct tctctttcac tgctccttgc tctttcttct gttaggtagc cgcaagatct   60

gcataccatg gcttacagga aattcgacaa ccctcactcc ggcgacgggg ccagtacagg   120

caaaaatctt gatcggaggg ggagccaaag acaccaccct agagacgttc gtgaagtact   180

ttgagaagta cggggagata acggactccg ttataatgaa agaccgtcac acgggtcggc   240

caaggggatt cggcttcatg acctacgccg atccctacgt cgttgaccat gtcatacagg   300

agaaccacgt cgtcaacggc cagccggtcg agattaagag gaccgttccc aaaggctctt   360

1960

<210> 4633
<211> 527
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065g12d1

<400> 4633

```
caagcaaatt tctagcaagt ttgacctaca ataatacaca ttaacacaac tccaccatgt    60

ttctaactaa atatcgaatc cagaatagcg acagtctaat gcaaacatct gaatatcaca   120

ttaaagcaga atgtgcctat ctaaaatcca tataggctga taactgatgg gaagctctag   180

attgatgatg ctcagaaagc tctagactga tgatgtttct accttcggtt gtctaagcaa   240

tagataaaac agacatgcta gtggttcttc tgacttctag aaagtggcca cctgcagtaa   300

gtgccttgtg tctagaaaat gcttaaacct gcatacaaat tctactgcaa agcttagtaa   360

taaaactatc ttgcataagg atggtaacga ctactgccac catagcttcc cctactggga   420

tacattccac ctcctgctcc tccataacca gcaccgggac ctgttctata accccaccag   480

cgcttggacc acataggttc cataagcccc accaccccgt ccatatg               527
```

<210> 4634
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220065h01a1

<400> 4634

```
gatgaacgct cccctcgcgc cctcgctctc acagccgaag ccgttcaatt caactccggc    60

aactacactg tgtggcattt ccgacggttg ttacttgagt cgctaaaagt cgacttgaac   120

gatgaactgg agtttgtgga gcgtatggcc gctggaaatt ctaaaaatta tcagatgtgg   180

catcatagac gatgggttgc cgagaagtta ggtcctgaag ctagaaacaa tgagctcgag   240

ttcaccaaaa agatactgtc cgttgatgcc aaacattatc atgcatggtc tcatagacag   300

tgggctcttc aaacactagg aggatgggaa gatgaactta attattgcac agaactactt   360

aaagaagaca tttttaacaa ttctgcttgg aatcagagat attttgtcat aacaaggtct   420
```

cctttttttgg tgggccctaa agctatgaga gagtctgaag tgctttacac cattgaagcc   480

attatagcct accctgaaaa tgaaagctcg tggagatatc tacgatgact ttata   535

<210>   4635
<211>   423
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065h01d1

<400>   4635

caacggaaaa aaaaacttaa atttcttatt ctgcatggct ttcaatcctt acactcaaat   60

gccagtaatg gcatgacaaa aagataaatt tgcacaaaca gatacatgac aacataaaaa   120

ataataataa ataaacatcc agtttcaata aactaggtta cacataacac agagttgccc   180

tttaattact ttggttacta agctgataga ggaagtctgc tcttgcgcca aatccaatag   240

ttggttctaa ttggatcaac ttgttttagg atagaacaaa tatttcgggc tatatttaaa   300

ttttgttgtt ccccttctc atcatcatct aaatcttgtt tatccatatc tgcggtcttt   360

aaggcgtcaa tggcatctct aatgtcttca tttggttgat aaccaaagca tataagatct   420

aaa   423

<210>   4636
<211>   229
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065h02d1

<400>   4636

aaggaccaca catttccttg gatttcccac ttggttttgg caagcctccc tcccaaaaat   60

tcccttcctc aaaaaacacc gggggttaaa cagtttcctg atcctatacg gggaaaattt   120

tccccgcccc aaaggaaaaa ggtcacaaca aaaattttta tacaaacccc ccttaggcca   180

gtttcacatt acaaccccaa tcgggccttt ttttggattt aagggggggg   229

<210>   4637
<211>   399
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065h03d1

<400>   4637

gggaaccccc tatgcaaaaa acttcccaag tttttcttag caaaaaaaaa aaccttgggg   60

gcaaaaactc ccccacccttt ttatgggaaa ttttcatggg ataatttatg aaacaggctt   120

gtacttaaac ccccgatctt aaaacacaaa ttttcgtccc aacaacaaaa ttttttataa   180

cttgggaagc ccgcgggcaa aaagctaaaa agtaactaat gccagccaaa gatcaaattt   240

cattaaatga caaacattgg ccgaaacaaa attttctccg atcgcaaatt ttggttccac   300

aactggtcaa cgattggcct ttgcaaccct ctcaaattca tcctttttct tgaaagcana   360

actgggggaa gacccttttg ctgcttaaaa aggtcatca   399

<210>   4638
<211>   594
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065h04d1

<400>   4638

gcgttgaatc attcaagata gtacgcaaat aacaatacag tattcaatag caacatgatc   60

ccttactaag taattattaa ggcatttcgt ttgagtggac tttaagtaat tttatccgac   120

taaactacat caatactagg aaatggaaag attccttcat gaacatagaa gccgcaataa   180

aaagttctat agagcattta agagacgaaa ttcagtggat aaaatttcaa gacaaaataa   240

attagaaacc aaaaccatta aataaaaact accaaacact caaagtctat tcatttccta   300

aagatttaag cagcagttgc ttgttgggcg gcaatccttt tcctagcttc ctcaatgatt   360

gatagtttaa tacctttacc cttgggaaga gatatccatg ngtttgttc ccttgccaat   420

ggtgaacaca ttgcccatac gagttgcaaa ctcgtggcca gtggcatcct gaacatggat   480

agtctcaaag cttcccttat gcttctctct ggtcttgatc actccaacac gacccctatt   540

ccttccacct gtcaccatga ctacattccc aacatcaaac ttgatgaaat cgac   594

<210>   4639
<211>   444

<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220065h05d1

<400>   4639

cacaaatatt ttttatctcc aattccaaat atatgcactg taatacaacg atgttaacta   60

tcaaagaaat acacttgtta acatattcac accgtaccaa tttattttta ctcaaaaaca   120

taacaaaaaa ccaaaactgt agccgatgaa gagaaattaa attaaagcta actttattgt   180

catcctcaaa aaaataagaa aaaaactgaa ttcatgaaac acaatcaaag agcgatgatg   240

atgactcgca agctcctgac tagaataatc tcggggagta tctaatagaa aaaagtggcg   300

gcaactgaaa gcaggtggc aaatactcca acaactccaa gagatgcagc accagagttc   360

tgtgggggag gagtgacagc accggctgga gaagggctaa aggatntggt gggggggggc   420

cgcggcggaa ggtgggggtgt gcgg   444

<210>   4640
<211>   588
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065h06a1

<400>   4640

cggctcgaga attctgcaga atggattatg agcatgcagg cttgcaatgc tcatggactt   60

tattgtgttc ctttatatga taccttgggt gctggggcta tagagtttat tatatgccat   120

gcagaggtct aattgcattt gcagaagaaa agaaaatacc tgagctattg aagacatttc   180

caaatgcaac aaagtatctc aagacaattg taagcttcgg aaaggttacc cctgaacaaa   240

agcaagaagt tgaaaattct gggttggaaa tatattcatg ggatgaattc ttacaagtgg   300

gtcaaaatca gagtttgat cttcctatta agaaaggag tgacatctgt acaataatgt   360

atactagtgg aactactggt gaccccaagg gagtgttgat atcaaatgag agtattatta   420

ctctcttagc tggggttaag cgactgttgg agagtgtaaa tgaacaattg actgagaagg   480

atgtatacat atcatacctt ccacttgcac atatatttga taggtcattg aggagacatt   540

catatgcatg gtgcttaata gggttctggc gtgggggatg tcaaatgt   588

<210> 4641
<211> 508
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220065h06d1

<400> 4641

```
gaataattat atatgtaaaa atgattcatg gatactgtaa tacacctaga gatagaaaaa    60

gagaagaaag acaacttact tagataagtc cggtagaata gataatatga cgtgaaaaaa   120

aaaatcaaaa taaatgacgt atccatatat aactactcag cgtatataca gtcaccaaaa   180

ggaaacaatt gaacggagac aaacaccatc acatacagaa aataaattat ctcccaaatc   240

aggtctcagg cactgggttt acttccactc ttatacatgt tgtcaatggc attctgatag   300

tatttaagca actgtggcct cttcttcttg tatgttggag tgataaggtc acgttccatg   360

tcaaatggaa ttgagtcaag gtgaactgct tttataaact caaaaccttt caacttcttt   420

tccttcgcaa tctttgagag ctcttcantt atgtaacttt ttgctcgagc atcttcacag   480

agagaattga agntcatgga tataccat                                      508
```

<210> 4642
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220065h07a1

<400> 4642

```
cagcgtttct gcaaattcca atttttcaaa cttaaaaaca aaaacgggcg ttggagaaaa    60

agctgttatt aattcgggag cgatatggag gtcgtactca aagagttgca cgccnnnnct   120

tcaatctntg agccaatcgc ttcccgatcc atctcaccat gatttgctcc gcaagattca   180

attgcgtgtt gaggaccttg cgaagcttgc agaggctgca cctgttcgtc gctctaaagn   240

tgaggatttg agtgctgang ttcgacatag caatccttat agtcggctta tggcacttca   300

gagaatgggt attgtggaca actatgaaag aatgcgc                            337
```

<210> 4643

```
<211>       316
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220065h07d1

<400>       4643

gtgtgttgat tgtttttttg ttgttaatttt cttatttggt aaaggtgtgg gggaggggaa     60

aaaaacagaa aaaaacccccc ccccctaaa aaaaaaagag ggggcagggg gggccggggg     120

ggggaaaaaa aaggggggaga gggggaacat agaaaaacca gaaggaagcg gtgcacaggg     180

aaagggaaag aagacatggg cagagaccac aggaaggaca tttctttaaa gaggaggaaa     240

aaaaaaaagg aaagcgccgc ccgggcaaaa aaaaagcagg gaagacggcc cccaagaaaa     300

aaccgggggg gggaaa                                                       316


<210>       4644
<211>       466
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220065h08a1

<400>       4644

tgaagagtga gagagagaga gagatagagg cacttggaat ccaaaaatga gagaaatcat     60

cagcattcac ataggtcagg ccgggatcca ggttggcaac tcctgctggg aactctactg     120

cctggaacat gggcatccag cccgatggca tgatgccaag tgactcctcc ttcggtgtag     180

cccacgacgc cttcaacacc ttcttcagcg aaaccggatc cggcaagcac gcccctcgcg     240

ccgtcttcgt cgatctcgag cccaccgtca tcgacgaagt ccgttgtggc acttaccgtc     300

aactcttcca ccccgaacaa ctcatctccg gcaaggaaga tgccgccaac aactttgcca     360

gaggccacta cagccgttgc aaagagatcg tagatctgtg cttggatcgc gttcgaaagc     420

tcgcagacaa ctgcactggt cttcagggct tcctcgtctt cacgct                    466


<210>       4645
<211>       402
<212>       DNA
<213>       Glycine max

<223>       unsure at all n locations
<223>       Clone ID: jC-gmfl02220065h08d1
```

1966

<400>   4645

aaaccaccaa aatagaagca taatgatgat atcacttcac agtttgaata atggagaact   60

atatcacaca ggagtaaaaa caaaaaggaa cgaacaatac tggttcaggg taatgtaacg   120

aagcatatac ccttttttact cgaaacaatt acattgataa taaaaccttc atttatgaat   180

aggcctctcc ttcctcataa ttttccgctc cttcagcccc aacctcctca tagtcctttt   240

caagagcagc aagatcctca cgagcttcaa agaactcttc tttttccata ccctcaccaa   300

cataccagtg aacaaaggcc ctcttggcat acatcagatc aaatttgtgg tcaatgcgag   360

agaacacctc aaaactgcag ngttgttgct gatcatgcat ac   402

<210>   4646
<211>   272
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065h09a1

<400>   4646

tatgaagaaa agctagtcaa agggtggtat atatagtttg cctttttttt gttctcaaat   60

gctattaggc tgatgtattt tccttctctt ttttacttgt gtgtagtttt ccctgcctaa   120

agtacgtact taagtctttt tcaatgaaag aaataagcaa aaaaaaaaaa agaaataaca   180

aaaatagggg atgaaaaata gaatgaaaaa aaatgtttat tatttttatg gataaaaata   240

gaaaaaaaaa acataaatga atttagtcct tg   272

<210>   4647
<211>   272
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065h09d1

<400>   4647

caaggactaa attcatttat gttttttttt tctattttta tccataaaaa taataaacat   60

ttttttttcat tctattttttc atcccctatt tttgttattt cttttttttt tttggcttat   120

ttctttcact ggaaaaagac taagtacgta ctttaggcag ggaaaactac acacaagtaa   180

aaaagagaag gaaaatacat cagcctaata gcatttgaga acaaaaaaaa ggcaaactat   240

atataccacc ctttgactag cttttcttca ta   272

<210>   4648
<211>   476
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220065h10a1

<400>   4648

tcttcacttt caatcttttt cccttccttt ccttgtcttt ttattttttt acatcaaaat   60

taaaataata acacccatca aacaaaccac acttctcccc ctccctttga aaacacctca   120

ataaatctcg atgatcatgg cagcactcaa ttcaagcact tgtgccaaac ctcaattccc   180

tcaccctctc tcctcctctt tctcttcttc ttcatcatta acaagagatt tgggcttccc   240

cacaaggttt cagaagaagc ccattagaaa ggtggtggat tgtgctctac actcccccc   300

agtgatccat ttcccaaacc agccctacaa caaacctgaa attaccaaag aacccaccac   360

ctccaccgcg gaaagggctc agtggaaccc attccaaaaa gccgcagcaa aggccctcga   420

catgttcgag agcgcgttgc tctcacgcga gctcaaccaa ccttttcaaa aacact   476

<210>   4649
<211>   564
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220065h10d1

<400>   4649

gacaagagag tcaggaaggc aagattgaaa attgaagaac caaaagccaa acagaaagcg   60

aattcttttt taaaacaaaa gaaaggaagc aagaaacaga aagcagctga gcttcatcca   120

caaactacaa gctgattcgc gaaagcatag ataaatattt attattgaga agggtagaaa   180

aggcaacaaa atgtttgttg tctgaaatgt gttttaccgt ttaagcgacc aaataaaata   240

gtccaggtgg acttcaatga gcctccacaa acgtgccatg gaagccatag ggcactcttg   300

aaggcagcat gacagtggcc tccaacttca aatcaagtgc attcagaatc tgcaactcgg   360

actgccacgt catctcgtca tgcacaaaag ccatcacgta cccttcatcc tcattcccat   420

```
tcctccacgt gttggcaaga agaatggctc tccaccgaac cttctttctc cgtactcgtg    480

cctcttcact tccccactct ccaggtccac cttcgccacc cncgacacct tcggccacgg    540

ttccgctatg cacaaatatg cgaa                                          564
```

```
gaacagagca acactgaaca atggcgcaac cttcctcctc ctcgaagcct gttgtccctc     60

tcctgaagga cgagctggac atcgtgatcc cgacaatccg aaacctcgac ttcctcgaga    120

tgtggcggcc cttctttgaa ccttaccacc tcatcatcgt gcaggacgga gaccccaaca    180

ggaccatcaa tgtccccgaa ggcttcgatt atgaactcta caaccgcaac gacatcaatc    240

gcatcctcgg acccaaagcc tnctgcatct cgtttaagga ttctgcgtgt cgctgctttg    300

gttacatggt ctccaagaag aagtacatct acaccatcga tgacgactgc ttcgttgcta    360

aggatccttc tggaaaggat atcaatgcac ttgagcagca cattaagaat ctcctttgtc    420

catccactcc atttttttc aacacccttt atgaccctta cagagaggtg ctgatttcgt     480

ccgtggatac ccttttagtc ttcggagggt gcccccatgc tgnttctcat ggcctctggc    540

tcatatacct gattatgat                                               559
```

```
atcaataaat tggtctataa tcttgcatta taaaaaaat atggtaacaa atatgataat      60

caattaaaac tgacaaggaa gaaactactc caattgaaaa ctaaaatccg caaccataaa    120

aggttcactt ggcagcagca gcaccattgg ttggctttga aggaacttct tcagatgtgt    180

tgttgttaag ctcatcccaa gcttcaatcc aagtaaccat ggcatctgct agcttgatga    240
```

agtagggatc aacagcccca agcttctcct tgacttgctt ggagagttca atgtaacatt   300

tttggacaga cgtgcactct tttaaaagag tggcactttg gaagaatgga atga   354

<210>   4652
<211>   491
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065h12a1

<400>   4652

gaggtggagc tataggtctt ggtgctccat ctatgcctgc tgctttgaag catcctagga   60

cccccccaac taatccttct gttgactatc catctggaga ctcagatcat gttgctaaga   120

gaaacaaggc caatgggaat atcagatgag gtaaatcttc ctgtcaatgt gttgtcagct· 180

acattcccag gtcatggtca acatagtcaa gcttttaatg cacctgatga catacctaag   240

actgttgtgc gaactcttaa tcagggttca tctcctatga gcatggactt tcatccaatg   300

caacaatctt tacttcttgt tggtacacat gtgggggaca ttgctttgtg ggagggtggg   360

ttctagggag cggttggtct caaggaattt caaagtttgg gatcttagtg catgttcaat   420

gccatttcag ctgctcttg caaagaccgg ggtgtttctg acaatcgtgt aatttggagt   480

cctgatggtg c   491

<210>   4653
<211>   377
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220065h12d1

<400>   4653

ctaattaaat agctagaagc aacttgaaag tactcaaaag aacttgtaca tcatcttagc   60

attaaactta acaagaattt ttcacatcta ttggcaaatt acaatgtgat tttggtcttc   120

caaccaaatg agttgctcca aacctttggc atgtacgatg gatggattta acttagctgg   180

atcaactgaa ttggagagag tgccctgcat taacttaagt acaaatttag ttcttaaaat   240

ggccagcaag ccaagtatgt aaaagaaact tgccttcggc tgacatggat catctttgag   300

cttgatctga aggtccaact gaagtagctg ccacattgct tgcagaccca ttctcaatcg   360

gaggaggcac accccac

<210>   4654
<211>   494
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220067a02a1

<400>   4654

gccacttgtt cactcatttc cacactctta ccttctcctt cttcttcttc tttatcactc   60

tgtcgttctt cctcaaacac caccaaacca accaccattc acctctgcaa atccctccat   120

ctccaaactg ccatactctt cctcctttgc ctgccaaagc caaaaccggc gcttccaatg   180

ataccgctct tccccaaact caccgtttcc aactcccttc tccttcgctg cacctccctc   240

gctctctcct tcactctcgt ggtctacccc ggcgactccg acgacgtctt tgatgacacc   300

tccccaagga agctccagtc cgatgaactc gacaaccgcc gtctcttcca agagaacact   360

ccctacgttg tctacataac caaccttgct gtcaagcagg atgcgtatac attggacgcg   420

ttggaggacc ctcaggggtc aggatctggc tatgtttggg ataaggaggg tcatattgtg   480

accaagtatc acgt   494

<210>   4655
<211>   500
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220067a03a1

<400>   4655

caccattcca atttccatgg cactctcctt tcgccccgtc atccaccccc gcgtcaccga   60

ccggtcactc tttcagttcc tcccacccaa gcctcccccct cttccaactt cgccacctcc   120

ctccgttctc ctcccccctca cgcgtcgccg cggcggcttc cttccctcct gcctctccga   180

cgacgccgtc tccacccgca acttcgaccg cggcttcacc gtgatcgccg ccatgctccg   240

ccgcatcgag cccctcgaca actccgccat ctccaaaggc gtgtcccccg ccgccagaga   300

ctccatgaag cagaccatct ccaccatgct cggattgcta ccctccgatc acttcgccgt   360

caccatcacc gtctccaaac accccctcca ccgcctcctc ttctcctcca tcgtcaccgg   420

gtacactcta tggaatgcgg agtacaggat gtctctgaca aggatttgga tatatcaggt   480

tccagggatg aagggtcaga   500

<210>   4656
<211>   490
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220067a04a1

<400>   4656

gttgcggcgt agcagatncg gatccggtac gactatatac gacgttcgat gcagctcact   60

tcgtacagct ggggcgatcc ctgtgcttct gagtgagtag taatagagtt gtgtttgata   120

agacgtgcca tgtgaacagt agaagaggag atgagggata cggcaatagg tgctgcttat   180

gtctgttaat ttactagcca ggtatgagaa tacagtgaag agaaacgga gtcttcgatc   240

ctgagatgtc ctatacgata gagctggcat gaacccgaac tgaacaaatg actggggacg   300

ccaggggaat cgatcagggg aaaaatggac aattgacagg gacattgcac ttatcgagaa   360

actcgaacac tgtggaagcg aggctcacaa cgctcttgag tcacatcatt tcgcgagaga   420

cgcagaagct gggctttaca gggaggtcgc aggcgcgtgt gctggtactt gggtgactgg   480

gcccagagaa   490

<210>   4657
<211>   560
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067a05a1

<400>   4657

tgggcgtaat cacgatcgag gtacggttcg gcatagctat gccgggtcga cgcgctcgct   60

cgtcggcggg cgtcctgttc gagttgagcg attcatcagc ttcattatga gacttaacag   120

taccaaactc cttagggcct tcttcaaact cctctttcgt gccactatct tatctcactc   180

atcctcgtct tcctcttcac cttcaactac cctcctctcg ccccagactt cacctcccac   240

cgccacctcc actcccactc ccacttcctc tcctcctcct cctccttcgc ctcctgggag   300

aagcaggtcc gccactcctc cacccctcgc cgcccaacg gcctcaccgt cctcgtcacc 360

ggcgccgctg gcttcgtcgg cagccactgc tcccttgccc tcaaaaaacg cggcgacggc 420

gttctcgggc tcgacaactt caacagctac tacgatccct ccctgaaacg cttccggcag 480

gcaatgctct ggaaacacca gggtttcatt cgggaaggtg accttaacga cacccccttg 540

cttgagaagc tcttcgacgt 560

<210>   4658
<211>   429
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067a06a1

<400>   4658

atctttcaat ttcaatcaac ggctataccc ttttctattt gagcatcatc atgtccaccg 60

cagcgcagcc catggccacg taaacggcgt cgtccacgaa gcctctctcc catcctacct 120

tcgccgcgat gatagcggag gcgatagcca gtctgaatga gagaaccggt tcgagccgct 180

acgcgatcac ctaatccatc gaaggctggc acagggtgtt gcctacaacc tacaggatgc 240

ttgatctaga ccatttcatg aagtcggcag atgctggcaa gctacctaag ggcatgaact 300

ctttcatgct tgtaccggct aagtctgctc ctgataaagc cgatgctgct cccaagaagc 360

ccaccaaagc tgcagttaat cccgtcgtca gcccgctttt caagcccata gctgctgcac 420

ctaagaaga 429

<210>   4659
<211>   415
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067a07a1

<400>   4659

gggcatatct cttgcctttc tttgatgatc tgtcctcata cctaacttct atgttcggta 60

aagacagaac ctcagaggaa aggagaattg ccatttgtat atctgatgat gtcgctgagc 120

atggtcgtga agctgctctt aaatattatg agactttgct tccattctta ctagaagctt 180

gcgatgatga atatccacat gttctacagg ctgctgtcta tggcgttggt gttcgtgctg 240

```
agtttggggg atctgttttc aaaccccttg atggataggc actttcaagg ttagatgctg   300

tgataaggca tacaaatgca ctacattctg ataacataat ggcatatgac aatgctgtgt   360

cagctcttgg aaaaatatgc caatttcatc gcgatagcat aaatgcagca caggt         415
```

<210>   4660
<211>   588
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220067a09a1

<400>   4660

```
attggcctct tccatcgcag cctctgctgg caacttctac caggattttg acgtaacttg    60

gggagatggt cgtgccaaga tactcaacaa cggcgatctt ctcactcttt cccttgacaa   120

agcctctggc tcggggtttc agtcccaaaa acgagtatct cttttggcaa gattgatatg   180

caactcaagc ttgtacccgg aaattctgca ggcactgtca ccgcctatta tttgtcatca   240

aaaggatcaa attgggatga gattgacttt gaattcttgg ggaatctgag cggtgaccca   300

tacattcttc acaccaatgt gttcagtcag ggcaaaggca gcagagagca acagttctat   360

ctgtggttcg acccaactgc agatttccat acctattcca ttctttggaa tcctcagcgc   420

ataatcttct cagtggatgg gaccccaata agagaattca gaacatgga atcaaaagga    480

gttgcattcc caaaggaaca gccaatgagg atatactcta gtctatggaa tgctgatgac   540

tgggcaacaa gaggtggact tgtgaagaca gattggacaa caagctca               588
```

<210>   4661
<211>   619
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmf102220067a11a1

<400>   4661

```
gtgataatgg tgactccaac tccatatgcc ctagtcataa tgagcctaat acaccacatg    60

ccgttcctgc tgatgtaaga cctgaaatca agagtggatt agacaatgag aatagggata   120

atgaaaagca ggctgctgct gcacgtgcag ataatggaaa ctcaatctca agaacttgt    180

actttttgga tcctgatgat tcatatgatg gtaatgagtc aggaacagaa gaggagcaat   240
```

```
cagcttttat gaaggagctt gaaaatttct ttagggagag gagcatggaa ttcaaaccac    300

ccaagttcta taaagaggag cttaattgcc ttaagttatg gagatctgta cacagattgg    360

gcggctatga caaggttacc tcatgtaaat tctggcggca agtgggagag tctttcaaac    420

ctccaaagac atgcacaaca gtttcatgga cttttcgggt tttttatgag aaggcacttc    480

ttgactacga aaggcataca acanaaggtg gtgagctgaa tgtgcctatt actcctcttg    540

cagagccaat aaatattgaa aatcagtctg tccagggttc agcatcatag gtagggcacg    600

gagagatgct gcagcaagg                                                 619
```

```
<210>      4662
<211>      615
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220067a12a1

<400>      4662
```

```
catgaggcaa aaaataagga tggaaaaatt aagttgcagg agaagtttgg gttcaagcct     60

gacctaaatg ggattacata tgctggcaag aatgattata caggaaaaaa ggagagcagg    120

aaaaaggaga atcactcata tcggggtcat gactttcaag atgttagtac agatacccca    180

tgcaaacagg aggtatttca tgctcctatt cagaatcagt tgccggactg tgatactgaa    240

agatccacaa agagatctct tttggaaaga actgatcaag aagtacatgg aaaagggaag    300

ccattgccat catttccatc tgaaggatct caagttgaga cattaggtca ttgcccacga    360

ccagttggct tacataaagg aaatggagat atggaagttg atccttccaa agtggatgat    420

gtgtcaaagt tacaaaagaa gcaattgaaa aagaccggcc atcanaatgg aaatcagcaa    480

attggttcac gaaatcccat acttaatggt cacaagttca aggagcttga tgcccctagt    540

tcagctagaa ggtattctta cactcatgct gctaacaatg ctctgaanga agctaagatc    600

ttaacatctg gctga                                                     615
```

```
<210>      4663
<211>      505
<212>      DNA
<213>      Glycine max
```

<223>   Clone ID: jC-gmfl02220067b01a1

<400>   4663

cgagaccacc gcagtcatca ctcgcgacgt gagacggcga gacctccacc tcctcaccgc   60

tgccttgctg cgccgccgcg acgcgagagt gaaagacggc gagacctccg caccgctgcg   120

ccgccactag agctcctcgc cctcaccctc gcgagacccc ctcattcctc attcagtctc   180

agactctcag cacctcaccg gcgccgttag agacagttct cgttggacct caccctctca   240

tcctcacgga cctcgccgcc attgatcctc atcttcacgg acctcaggaa tgccagaacg   300

caaaccagtt gttgggttat catggcaacc acagttgcct attccatcat cattaaaagc   360

cactgatggg tctcacacca aacctcaaac tgaggcatca agcactgtta ggaaatccag   420

ttcagagctg gttgatggct tttttgtccc tccaaatgat ccccaaaaat taaacaagtt   480

actgagaaag caagctaaag atact   505

<210>   4664
<211>   499
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067b03a1

<400>   4664

cgcacgtaga tacgatccag gtccggtacg gactagctat gaggttcgac gcgctcgctc   60

gtcggctcgg cgatctgctc gagctaacaa ccacgtatcc gctttctact tataacgagt   120

gaggagaaat gtgccgtctg aggatcggac agtctgagtc aaggaggtac ccgatggagc   180

actataacag actctctggc ctggacatgc cgcacaagta tgcacgcacg accgcatcaa   240

cggacaacac tgagctacga gagatggcac cctggctacg agcatgaaaa ctggcaggca   300

agcccgacat gatacttgaa aggcgtggtt caagaggcca gactaggtcg agcaaccctg   360

atgatcatga agagctattg gagaacgagc gaaactgtag agaggacccc aggtcttgat   420

ccaaatgacc ctgtgcaacg agggaggcag tacctaaacc tctgcaccat gtgaagggtg   480

accctaactt ccgctctta   499

<210>   4665
<211>   626
<212>   DNA

<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067b08a1

<400>   4665

tggcttcctc gtgtgcttcc tctgccattg cagctgttgc catctccaca ccaagttccc   60

agaagaatgg atcactcttg ggaagcacaa aagcttcttt tcttagtggg aggaaactga   120

aggtgaacaa ctttacagca ccagttggag cacgatccag cactacagtt tgcgcagttg   180

ctgagcctga taggcctctg tggttcccag gcagcacccc tcctccatgg ctagatggca   240

gtttgccagg agattttggc tttgatcctc taggtcttgc atctgatcct gagagcctga   300

gatggaatgt ccaagcagag cttgtgcact gcagatgggc catgttggga gctgctggca   360

ttttcatccc agaattcctc acaaagattg gtatcctgaa cacccctca tggtacactg   420

ctggagagtt ggagtacttc acagacacca ccacactctt catagttgag ctctttttca   480

tcggttgggc cgagggtaga aggtgggctg acatcatcaa gccaggctgt gtcaacactg   540

accccatctt tcccacaaca agctcacagg aactgatgtt gggtacccag gtgggctttg   600

tttgaccact tggctgggga gtggtc   626

<210>   4666
<211>   572
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067b12a1

<400>   4666

gcgcctctaa cgctcgcagt tccttgatct ctcctgtcaa gatgcatata ttcatgaaaa   60

ctttgaccgg caagaccatc acccttgagg tggaatcctc cgacaccatt gacaacgtaa   120

aagctaagat tcaagacaag gaaaggatcc cacctgacca gcagagactt atctttgcgg   180

ttaaacaact tgaggatggt cgcacccttg ccgattacaa catccaaaag gaatcaaccc   240

tccatctcgt gcttcgcctc aggggtggca tgcaaatctt tgtcaagact ttgaccggga   300

agaccatcac ccttgaagtg gaatcctcgg acaccattga taatgttaag gccaagatcc   360

aggacaaaga gggcatccct ccagatcagc agaggctgat tttcgctggt aaacaacttg   420

aggatggaag aacccttgct gattacaaca ttcagaagga atccaccctt cacttggtgc   480

ttcgtttgag aggtggcatg cagattttcg tcaagacttt gacaggaaag accatcacct   540

tggaggtgga aagttctgat acaattgata at   572

<210>   4667
<211>   544
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067c01a1

<400>   4667

cgcactagat aggattcagg tccggtccgg acttaatatc aggttcgacg cgctcactcg   60

tcagctggcg atcctgctcg agaagaagga actgtcatga atattaagga ataatgcgtc   120

accgaaatta tacactctaa atgttgtacg agctacgctg agctactacc ctatcagaca   180

ttagagccta ctctaataac tgaacacgct gcagaagtag ctaatcacga·gatattgcat   240

gaacataatg agttcctgga atcttccaac aaaagaacgc gcatgatatc gcacatgcat   300

gcacattgcg attcttaaga gtgctgcttt agaatgccac actatgtctt gcaaccctga   360

tgatgatgaa aagctttgt cgaacttgtg aaactctagt gtgtcacccg cggtctttcg   420

cagctgcacc atgagcaatg agggagccac ttgaaaaacc tatgaatcaa ctgaaaggtg   480

acccttcctt ccgctcttat caccttgcac tgcatcttat aattccgctt gtgaacatta   540

aatc   544

<210>   4668
<211>   492
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067c03a1

<400>   4668

aaactgattg atcatcatgc tctcattaac aatataaaaa ctaaacaatt aaaatcaaaa   60

atagaaaaga aaggaaatta aaaacagctg attaattaac cttgtagcat catcgtgcat   120

catcataatt catcattaac ctatctaata cattattatt tgcttccccc ttagatcaag   180

aactagaaga tccattggca ccaacaacgt tcaccccatc atagggatta ctactcggat   240

cttcagcgcg atcttcacca ccatcattgt tagggttttc aaaaaccttg acattacttg   300

```
catttgcatc attatcagta gaaatattat ttttagtagt aatattaata tcattactag    360

taacaatatt attggtatcc tttttggcaa aggtgttttt gctggtatgc atacaaacct    420

tgagaacgct tctatcaacg ccaacttcgt tgcaaatttc gtgaatcaaa tcctcgttgg    480

gcttctgaat ct                                                        492
```

```
<210>      4669
<211>      477
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmfl02220067c04a1

<400>      4669
```

```
cggagtaatc agatnctcga ccggtataga ctagatatga cgttccacgc gctcactcgt     60

agctcgcaat ctgctcgagc tgcggattgg gtgaagccat ggttggtatc aatttgaccg    120

atgacaaggt tgagaggtat cgtcaatcgc tctgaatgaa gtgaatcata attctcagat    180

ttgtttctct gtggcgcttc aatacggact attaagggtt atagttgcta cttatatatt    240

ataataaggt tatgtatcta gtgtccggtg ttttgaaccg tgttaatcgg attttagaaa    300

aaccgaaggg aataaataga taggtagcta tttgggcatg ccttgtaata tgcctatact    360

tggtcttaca tattcagcgt cgcggtattg tgttgagtta gtagtgcgtt cgttgtaaac    420

gagaatcgaa tcattcttga ttttggatat tcaatcctaa agccaataat ggaccaa      477
```

```
<210>      4670
<211>      601
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220067c07a1

<400>      4670
```

```
ggaaaatcat agtattttgt aactaaatgc ttttgttctt gtgaattaat tttcattcac     60

tttcagattt ctggtttcat catctattca aatagcttcc agcataatat tttgaatttg    120

actgctaagg aaagacccca tttttctgag ttggaaagtg acttatattt ttttgagctg    180

agaggaatat ttggaatcaa ggattgtgtg cttggttgac cagacttgct atctcagcaa    240

ttgatgtgag atccacgggg cgaaaaaaga agcaacttgg ccttatatta ttcatcagat    300
```

1979

gtctgcattc tggagctgag gaaatgggtt cttgcatctc aacaagcagt aggagtactt   360

gtagcagcaa gagcaatgga gatatggtct ctccatcttg cttagaaatt ggatgctgtg   420

gccaaaagag aacaaggaga acattctctg atcatgttat ttctctccac catttaccat   480

ccttacctag cagaattttc tccaatggaa agagccgcgg ttcgtgcata tttaccagca   540

gggccgcatg gtattaataa gatgccatga tgtgtggaag attcatgtcg aagatctatc   600

t   601

<210>   4671
<211>   614
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220067c08a1

<400>   4671

ctgagctttg attagtgtgg cctagttgct gttttctcga tgagaaaggc ttcttccact   60

atgcattgcg cacttctgcg cttttgggtt cccttgttgc tgcttgctag cttcagctat   120

gctccttctg tttcggccac aactgaaaat ttcagggaat gaaatgaaca cagatgggaa   180

ggtgataaat gaagagttag caaaaccaag tctaaaagga catgatgaag aagcaaagtt   240

caaaggattt tttccaaaac caattcctat agttaaacca attccaaagc caattcctat   300

tattaaacct attccaattc cagtttataa gcctattcca aaaccaattc ctattgttaa   360

gcctattcca aagtcaattc cagttgctaa gccaattcct aatgaagaag aaaaattcaa   420

aggatttatt ccaaagccaa ttcctataat taagcctatt ccaaagataa ttcctattgt   480

taaacctatt ccaaagataa ttcctatcgg taaacctatt cctattccag tttataagcc   540

taaaccaata ctaattcctg gtgttaagcc aattgctgta ttagcctgtt ccaaagataa   600

ttcccgttgt aaac   614

<210>   4672
<211>   480
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220067d03a1

<400>   4672

1980

```
ccgcagctgt gtcatgattc atttctaaac cctaattctc cttgtttcca tttctgcttc    60

attgtttttt aagcaattcc cgagcattga tcaaatgggt ttttgttcat ttccaatttt   120

ctgaaatagc gtgcccttaa aaaaaatatt atctgatcac attttctgct tctgcaaatt   180

ctgcattttt ctctttcttt ctttctttct ggggtctctg ctgaacaagg gaatctcgca   240

gattctttgt gtttctcttc ggttttcggt ctcaaaattt aagcttttgg acctttagtg   300

atgcaaattg ttgacggtta ttgtggggtg gtggctttga ttttccatgg ctgcggttgc   360

tgagattccc gctgatgcca acaaaatgga ctcaaaacct aaggctgaat ctgaattcat   420

gtgcagaagc tggttgacat gttcacacag ttgaatcctt ggctaagga cttttttccct   480
```

<210>   4673
<211>   511
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067d04a1

<400>   4673

```
tgggcgtcct tttttaggcg tgaatgtatc ccttttgatg aacttatggg ccaaaacgtt    60

ttccatagaa caagcatgtt aagttccttg ctgatggagc aggcaaatac accaatgccc   120

taggacttga gcttgaccta accgacaagg gtctcggtgt acgctcaaag aggatagcta   180

agatggtgga agacctcaag gagaacgtcg caaatgatga aagtggatga gagttcacca   240

tattcagtgc tgaagagatc attaaggtcc tctaaaccct agaatcctct tgcatggtct   300

tttgccgact ataatgtgtg gcgtgactca tttgatgcct gaacatacta aaatgctttc   360

cattttcata gatgtaatcg tgaaatgtgc tctggaaagg accatgattt ggtgcatatt   420

atggaaatca ataagatttc ttgcttcata tacttcttat tattagaaaa caatttggaa   480

gccaattttg catccttgaa tggggccca a                                    511
```

<210>   4674
<211>   485
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067d05a1

<400>   4674

gcaaaatgga taatgggtcg ggtctgcttc agagacccga ttcgtttggg aggtttggca   60

agtttggagg gaagtatgtc cctgagactc tgatgcatgc tctcactgag cttgacgctg   120

ctttctattc cctctctgat gatgaacagt ttcagaacga actaactggg attctgacag   180

attatgttgg acggtagagt cctctctatt atgctgaaag gttgacggag cattacacga   240

ggcctaatgg tgaagggcct cacatttatc tgaagaggga agatctcaat cacaccgggg   300

ctcacacaat taacaatgct gctgctcaag ctttgattgc taagaggttg ggcaaaaaac   360

gcattattgc tgaaactgga gcgggtcagc atggagttgc cactgctact gcatgagctc   420

gatttggttt acaatgcgtt atttatatcg cgcacagga tatggaaagg cacgctctaa   480

cgttt   485

<210>   4675
<211>   350
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220067d06a1

<400>   4675

gcaaacttca acttgtaatc aagggagaga gaaaatttca agctcaaaat atggcggtca   60

agaaagtgga gatccttgga ggtggagatg acggtgccaa cctttcataa gctatccatc   120

gtctagctaa cgtcagcctt attgctccga atgattttaa agagattaca tggtccagtt   180

tcaggggatt ggctgaccta actaaagctt acacgcttga gatcacccat agataggact   240

atgaaagggg caaccttggg agatacagcc gctgacaaca tacctgaaac tgtaattgtg   300

actgaatact gtcagcaaat tgtctatgac tatggcgtta ttgactgtgg   350

<210>   4676
<211>   431
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220067d07a1

<400>   4676

ctgagcttcg attagtgtgg cctatgtgcc gttacctcga tgagaaaggc tgctatcact   60

atgcatcgcg cacttccgcg ctctggggat cccttggtgc tgcttgctag cttcagctat   120

gctcacctat gttgaagcca caactgaagt cccagggaac gaagtgaaca cagatgcaac   180

gagctataag tggagtgagc taggccgaat caacaggaca tgaggtaact aagataatgg   240

atacctccga tccaattcct atcgttaaac caatatccaa agccagtccc tatcagtaaa   300

cctactccaa ccccagttaa taagcctatt gcaaaccaa ctcctattgg tactcctatt   360

ccaaagtcaa ttccagttgc taagccaata cctaatgaag aagagaaatc caaaggattt   420

attccgaagc c   431

<210>   4677
<211>   595
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220067d09a1

<400>   4677

gcaagaatag tggttctgct acctgcaagc gtgggtttgt tcagttctgt tatgagccca   60

tcaagcagat tattaacact tgtatgaatg atcagaagga taagctgtgg cctatgctgc   120

aaaagcttgg ggtcaccatg aaaatctgga ggagaaggac ctcatgggta aagcattgat   180

gaagcgtgtc atgcaaacct ggcttccagc aagtagtgct ctattggaaa tgatgatatt   240

tcatctaccc tctccatcaa cagcccagaa gtatcgtgtg gagaacttgt atgagggtcc   300

tcttgatgat caatatgctt ctgctatcag aaattgtgat cctgaaggtc tctgatgct   360

ctatgtctcc aagatgattc cagcatctga taaggggaga ttttttgcct ttggccgtgt   420

attctctggc agggtttcaa ctggtttgaa ggtgaggatt atgggaccta attatgtccc   480

tggggagaaa aaggatttgt atgttaaaag tgtgcaacga actgtcattt ggatgggaaa   540

gaggcaagac actgtagagg atgtcccctg tggtaataca gtggctatgg ttggt   595

<210>   4678
<211>   426
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmf102220067d10a1

<400>   4678

gcctaggtac agcgccagcg acgggtttca cgtgatagcg gcgcacaccg acagtccctg   60

1983

```
cctcaaactg aagcccaaaa cggcgcaagc gcaagtggaa ctataccatg gagaatgtgc   120

atacttaacg agctggcacg ctgaacagct agccatgaaa gggattggcg tgctgctgga   180

acggtgactc ttataactgg ccataattct ttcgcgcata acctcgcatg agctgataca   240

accatacagc gcataccatc acttgacgtg catttcgacc gagagcctgc ttggttttcc   300

accagagaca aagacttatg tagatactat gctctcaatg aaacctggag gcactgatct   360

ggaatcctac tccaatgaga atagtattgc catgggattc aaagctgatg atgatcaact   420

ggttat                                                             426
```

```
<210>      4679
<211>      544
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220067d11a1

<400>      4679
```

```
cttcaatgga atttggcaaa aagtagccat cgccccaacg atcccatttc ccttgacttc    60

tctacgtgaa gatccttgtg tcgcatagag ctagttaaaa tgtctgaggg aaatgcaggg   120

aaaggaaaga gaatcgacat cattggcgat gaagccttat tgcagcaggc tatggctgtc   180

gcaatcacag ttgtggtcaa tctcaatgag aatggttaca gcaatgatac agaggacaac   240

aagaaaaatc atgtagatta ttctataaaa gccgtccaaa cccttgtca tcccacagat   300

tataagagag aatgcgagga aagccttata gctggggctg gacataccac agatccaaaa   360

gaacttatca aaattttctt gaacatcacc attacaaaaa ttggtgatgc actcaaagaa   420

actgatcttg cgcatgatgt tgactgatga acccagagtc aagatggcac ttgaaacatg   480

caagcaactc atggatcttt ctattgggga ataacaagg tcacttgatg gaatatgtga   540

gttt                                                               544
```

```
<210>      4680
<211>      630
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220067d12a1

<400>      4680
```

1984

```
ctagtcacaa tttgttggag gagaagagat ggtttggcca attaggtcca gaataagttc      60

tcttctctgt tctaaggcac ctttagttgg ttcatacatc tatgactcat gtgggtgctt     120

acgctttct gcttcaacca gctgctccat aacaaggcat tggccaaaaa ttatggattg      180

ggtacaaatg gaccgttgcc gtgcagcagc atcgttacct tcgatcaaag agaaacaacc     240

agaaagtcat agtaatcgtg tcagactcgg tcaagaaatc aaaggtcttg atgaagggaa     300

tatggctgaa attgatagct atcaaaactt gtttggtttg atgaaacaga ggtttctgag      360

tttcaagagc caaagatata taaaagagtt ggagcatttt gaagctcttg ctgaagctca     420

atttcctaag gtgatagcaa acaggttacc tagcccattt aattttcttg tagtacaaaa     480

ctatcacatt ttagcttaat ttattgggta tggtggtctt taactgataa atccaagtac     540

agtttatggt gattgcttgt gcagactcta gggtatgccc ctctaacata ttaggattcc     600

aaccttgaga agtctttatg atacgtaaca                                      630


<210>       4681
<211>       420
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220067e05a1

<400>       4681

tgagaaatat gaacgacgga tttcagacta ttcagtatgg aattgaatca tatacatgga      60

tcagtgggat tgtacacatc ttacgatgtt acatgatact acagattcaa tagcaaacag     120

gcggataaat agatgaagca ttagacttgc actttcagtc gatgcatgag cgagacaaat     180

agctaatggt agctagcaat atctcgattg atataccagt aaatggtatc tttcgtagaa     240

atagcattct tgcttatgtc gatgattctc aataccgaac acagagcacg ggaatcacta     300

aatataggac tattggtgtg aatgacattt ttagcacgga ggattcttta attgagcatg     360

aaggaggtaa agaatttaag acagaatggc atcttaaagc atgtcaagca tagttcattt     420


<210>       4682
<211>       493
<212>       DNA
<213>       Glycine max

<223>       Clone ID: jC-gmfl02220067e06a1


                                 1985
```

<400>   4682

ctttgaagtt cacacacact tgttcacccc tgaaatggaa cacaacctca caatgaagtg   60

tcgtagaaat gaaaaccttc taaccagtgg cactcatttg ccagaaagcc ctcgagtacc   120

aatggagttt ctgtcaagat catggagtgc ctcttctctt gaggtctcta aagcccttac   180

acttccacca cctccacctc tttcttctta cataccttcc aagcctccta atgcaccctc   240

ttctgtgact aactccattt ccgaagaaac ttcagaggaa ttctcaacca tgtgtggcaa   300

ccagttctct tttgcttcct ctgccacctc acaacttgtc cttgaccgca taatgtcaca   360

gtccgcaaga gaggaagtgt ctccattaac gtcaggtaga ttgtctcata gtagtgaacc   420

tttgaacggt ggtgcttctt taaccggaac ggatagtcca ccaatttctc cttctgacga   480

gtttgacgat gtt   493

<210>   4683
<211>   631
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067e08a1

<400>   4683

cgcgtcgctc cgcaccagtt tcaccgcacg aatatcttgt tgtttggagc gatccgagaa   60

aaactctgta aacatgttgg tttaccagga cctccttaca ggtgatgagc ttctctctga   120

ctccttccgt tacaaggaaa ttgaaaaatg gaatgctgtg ggaagttgag gggaagtggg   180

ttgttaaagg agcagttgat gtagacattg gtgcaaaccc ttctgctgag ggtggaggag   240

aagatgaggg agttgatgat gcagctgtta aggttgttga cattgttgac acattcagac   300

ttcaggagca acccgcattc gataagaagc agtttgttac cttcatgaag aggtttatca   360

agaatttgac tcccaagctc gatgcagagc aacaggagtt gtttaagaag cacatcgagg   420

gagcaactaa atacctgctc tctaagatta aagatttcca atttttgtt ggtgagagca   480

tgggtgatga tgcttgcttg gtctttgcct actacaagga cggcgctgct gatccaacat   540

tcctgtacta tgcatatgcc ttaaaggagg tcaagtgcta agtgacttaa tgtacccagc   600

tatctactca ttttatctaa gttttttac g   631

1986

<210>   4684
<211>   571
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220067e11a1

<400>   4684

cggactcgga gaccccttca cggagctccg tcgtgggctc gtggccaagc accacggcaa   60

agatcggtac ctgctctcat cgccggtggc ctcaaggact tgggcaccaa aaatcccgtt   120

ctctacctcg atttcgaagt tcccgcctaa ttcacacggc ttatgctgaa gacactgctg   180

ctgctgctgc aagaaaataa aataaaaatt gccaaaatag ggaaacacaa aattgttggt   240

ggtgttgagg tgctaattag aggacaaatt gcaaatggct acatctgtta ataagattgg   300

acactggaag cgaaaagagt tgtggtttct tgtaatttat gcaatccttt tctatgttat   360

catcatcaac cgttcacttc aactctctcg tgattattac aaacagcttc acggtttacg   420

cccgggatgg ctcatagctc attacctcaa tgatgtttca gatgctcagt ggaggaattt   480

gcgaggaaat atacctgttc ttactcttgg tcttgcaatt ttcactctgc tggccaattc   540

atgagggcct tcattttaga gtgaaggaa t   571

<210>   4685
<211>   549
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067e12a1

<400>   4685

gaaagagcac catggaccca gcattggcga ctgctgtata atgcgctaag gatgtaaagg   60

tgatgcaaga tggcagtggg gaattcaaga ccatcactga tgccattaaa agtataccta   120

gtgggaacac taagcgtgaa taattacatt ggagctggaa attataatga gatcatcaat   180

attgagaaga caaagccttt tgtcaccttg tatggggtac cagagaaaat gccaaacttg   240

acttttgggg gcactgcaca acaatatggc actgttgata gtgctacatt gattgttgaa   300

tcagattatt ttgtggcagc taacatcatg atctcgaaca ctgcaccgag acctgatcca   360

aaaacgccag gaggtcaagc agtggcattg cgtatttcgg gtgacaaagc agcattttat   420

aattgcaaga tgtatggatt ccaggacaca atttgcgatg ataggaatag acatttttc   480

aaagactgct taattcaagg caccatggat tatattgtcg gaagtgggat gtcactatat   540

gagagtact   549

<210>   4686
<211>   357
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067f02a1

<400>   4686

gaatcctttg cctctgaaat tgaacaaatt cacatcccac tttgttcttt agctttattt   60

ttctaatttt tttggctaga gcgcatattt aaaaacgaaa aaaaaattg gttatttggt   120

tccagttcgt tctttacatt tgagtatcta aatatgtgaa ttgcttcagt acttttttaa   180

aaggaataca tttcaaaaaa ttaaaaaggt taatttctgc attttatgtc ctagtgttta   240

tacccttgt gagtccaaat ttgagtgatt acccttcatg tattggtgtt tatatggtta   300

cggtttaatt ggctctttac atatgtgttt ctaaattagt gattaaaacg cttcagt   357

<210>   4687
<211>   561
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067f03a1

<400>   4687

cgcactaggt cggatctacg tacggtatcg gcatagctat gacgttgcat gcgctcattc   60

gtaagctggg cgttctgctt ttgctaagtg tattacggga agcaaataag cacgggcgag   120

agcgttgtaa tcaaagtaat ctacaaagag caagtgtgaa agaaggaat gatggaacaa   180

atcaaacgcg aaatttccgt gatgcgtatg gtgctacacc caaacgcgga ggaaatcaag   240

gaagtgatgg ccacaaagac aaaaatcttc ttcgcgatgg aatacgtgcg tggcggggaa   300

ctcttcgcca aaatctccaa aggcacactc aaagaagatc taggctgcaa gtctttttat   360

gtgttaatca gcgccgttga ttactgacac agcaaaggtg tattccaccg tgatctcaaa   420

ccacagaatc tactccttga cgaagacgaa aaccttcaaa tctacgattt cggactctcc   480

                                1988

gctctgacgg agcagattgg gtacgatgga ctccttcaca gccaatgcgg cacccctgcc   540

tacgtgggac ctgaagtgtt a   561

<210>   4688
<211>   509
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067f04a1

<400>   4688

tcctttttt gctgatttct tttagataca aacaccagat cacatttatt gccgctcgct   60

acgcagatac gctgaacacg ctgactatag ccataaatgg ggacgcacgc atactctaag   120

ttgaacgatc ccttatgtgg gtaggataca tcccacggag agcatgcata gtagtgattc   180

aattaggatt atgcaaatga ttcaactaaa catctactct atgggactgc ataaggagtg   240

acaataaaga gcatagctaa aagagaccac ttcatcttaa ggtcagaccg tctgagttaa   300

cctaattgca tgaagattga cctacatatt catggctcaa aatctgatga tagctcttag   360

gctttgccaa actcagcgct gtagtgagca ctggattcca ctttctttgc atcattcagg   420

tgtttaacag ccttaatcaa atcttcatgg atcacatgat cacgttctgc actaattgat   480

ggcataccag cttccgagca cacattttg   509

<210>   4689
<211>   494
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067f06a1

<400>   4689

ccgaggagat cccttccgcc atcaagccct acaggaactt ccagaaggag aagaagctcg   60

aggacaacga cttcaccggc gccgttttcg aaggcaagtt ttacggcccc gatgaggtta   120

agaacctcga atccttgccc acgcgcgctg agatttacgc cacccttttg ggggctttga   180

agagccctgc ttccgctctt gttggcactc ttcagtctcc tgctagggaa cttgttacgg   240

ttctcaaggc gcatattaag aaccttgaag aacaacaagg tgttgcgcaa tagataccaa   300

taggtgtgta gccttgttta tgtgttttct ttattgcatt tcagttgttc tttgtttcct   360

tatttgtcta tggatgtgta gattattatt attatcatgt gttttcttgt gaagaaaaaa   420

aaatgtagaa tggtgcctag gaattgggaa tgctggaaaa tctgttccct ttgaatcatg   480

ctatttcact attt   494

<210>   4690
<211>   570
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220067f07a1

<400>   4690

aattttaggg ttttgctttc ttgtggtttg ggggaataac tgcataattg caagagtcct   60

ctttctttgt atttctacag aggatttcaa aggtggaggt tgagattgat tactctgtta   120

ctgtcgaaac agtaggaaat actgctatgg ggtgaggtca gtagcatagc tgatgacatc   180

agagaaggtg gaagttctgt tgaaccaaat gacaaacaag atcaacatga taacatgact   240

caagattcct ctggagggat cactatccca actgcaattc ccacagtatc agttgtttca   300

gttgaagagc cctatgtggg tcaggagttt gggtcagaag cagcagcaca tgcattttat   360

aatgcttatg ctacagatgt tggattcatt gtacgtgtga gtaaactctc gcggtcaaag   420

cgtgatggaa ctgctattgg acgcactctt gtttgcaaca aagagggttt cagaatggct   480

gacaaacgtg aaatgaatgt gaggcaaagg gctgagacca gngttggttg cagggcaatg   540

atattgtgaa gaaacttagt tctgggcaat   570

<210>   4691
<211>   616
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067f08a1

<400>   4691

cgggcggttt gtcccacgcg cagtgctgat ggacctggag cccggaacca tggacagcgt   60

gcggactggg ccgtacgggc agatattccg gcccgacaac ttcgtgttcg ggcagtccgg   120

cgcgggcaac aactgggcca aggggcacta cacggagggc gccgagctca tcgactccgt   180

ccttgacgtc gtgcgcaagg aggccgagaa ctgcgactgc ctccaggggt tccaggtctg   240

ccactcgctc ggcggaggaa ccggctccgg gatggggacg cttttgattt ccaagatcag   300

agaggagtac cctgacagaa tgatgctcac cttctccgtt tttccttccc ccaaggtctc   360

tgatactgtg gttgagcctt ataacgctac tctttctgtt catcagttgg tggagaatgc   420

tgatgagtgt atggtgcttg ataatgaggc gctctacgat atctgcttca ggactctcaa   480

gttgaccact cctagctttg gtgacttgaa ccacttgatc tctgcgacca tgagtggtgt   540

tacatgctgt cttcgattcc ctggtcaact caactttgat ctgaggaaat gcccgtgaa   600

tcttattcct tccctc   616

<210>   4692
<211>   563
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220067f09a1

<400>   4692

tgaaaggcta atattgaaaa tgccgtacaa catagtgaaa cctaatgaac gaacttgtgg   60

catcataata agtggttatt gcaaggaagg caatatgcca gaagccttga ggtttctata   120

cagaatgaag gagcttggtg tggaatccaa atccagtagt tttcaactct cttatcaaag   180

gatatctaga cactacagac acaaatggag tagatgaggc actgacgttg atggaagaat   240

ttgggatcaa accagatgta gtaaccttta gcaccatcat gaatgcatgg agttcagcag   300

ggcttatgga aaattgtgag gagatattca acgacatggt gaaggccggt atagaacctg   360

acatccacgc atatagcatc cttgcaaaag gctatgtgcg tgccggacag ccacgaaaag   420

ccgaagctct tctgacttct atgagcaaat atggcgtaca accaaacgtg gtgatcttca   480

ctaccatcat cagtggatgg tgtgccgcat gcaaaatgga tcgtgcattt agactttgtg   540

agaaaatgca tganatggga act   563

<210>   4693
<211>   622
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067f11a1

1991

<400>   4693

caccacttta gttttaggct aatattgtga aagaaagatg agcaagaggg caaggagtcc   60

aaggttggaa ctgaggctga acttgtcccc accaagggca gcagcaacct caattatatc   120

ttcttcggag ctgtcatcga cggagtcttc gacgttgtcg ccggtgtcgg tgcaatcgct   180

ggagagctcc tgcgtgtctt ccgaggctga agagacaagg gcaatgcttc tcgtggggtg   240

tcctcggtgc ctcttgtatg ttatgttgtc ggaggttgac cctaaatgcc ccaaatgcaa   300

gagtactgtg ttgcttgact tcctcaacaa cgaggaaaac aataccaaga agagtagcag   360

cgagtgagag atatgttgtg aacaccacat gcattaccgt cgaagattaa ccactccacc   420

tagtaccaag aaaatgttgt tttttgttat tgttggattt ccctttttag ttaattatta   480

gagtagaatt ggcattttcc tctctcaagt tttttctgtg aaattttgct ggtacttact   540

gtacctgtac aagacaattt gcaagttaag ggaagagatt ttaaatttga agtttattaa   600

aaaaaaaaaa aggccgtcga cg   622

<210>   4694
<211>   614
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220067f12a1

<400>   4694

cagattacaa ggcagcaagt agagctctgg acttcttctt tggttggtat tctgatccgg   60

ttttctatgg tgactatccg gagagtatga aatcttcagt aggttctagg ctcccaaaat   120

tcacaaaagc tgaatctgaa agtctaaaaa attccataga ttttcttggt gtgaattact   180

acaccactta ttatgcggaa catgctgaac ctgtcagtgc caaccgaacc ttctacacag   240

acatactagc cagtctcagt acggaaagga atggtctaca tgttggaacc ccgactgatt   300

tgaattggct ctttatcttt ccaaagggaa ttcatcttct tatggcacac ataaaggata   360

aatacaagaa tcttcctatt tacatcactg aaaatggcat ggctgaatca aggaatgact   420

caataccagt caatgaagcc cgcaaggata gtatcatgat tagataccat gatggacatg   480

ttagatccct tcataagcga tcaggaagg tgttaatttg aaaggctatt atgcatggtc   540

attttcggac agtnttgaat gggatgctgg ttacacagtt cgattcgggc tcatatatgt   600

ggatacaaga acac

<210> 4695
<211> 494
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220067g01a1

<400> 4695

cctccacccc ttagtccttt tcctcaaagg gactaccata atttttctct cccaaacaaa   60

cccaagagag gaagaaagaa agaaagagt ataaacacac aatatctctt taaactcttg   120

acccttctct tggaggcatg gctttcccaa ttctcttcct tctcttcatt tcccttccct   180

tctcctccgc aaagctcaac gtcgattact acaaaaacac atgcccagac ttcgaaaaaa   240

tcgttaggga aaacgtcttc accaaacaaa gcgctagcgt ggccacagca ccgggtctcc   300

ttcgcctctt cttccacgat tgcatcaccg atggctgcga cgcttccctc ctcataactt   360

ccaatgcata caaccctcat gcagaacgtg atgcggacct caacctttct ctctccggtg   420

atgccttcga catcatagtt aaaatcaaaa acgcattaga acttgcatgc cctggtgttg   480

ngtcgtgttc cgac   494

<210> 4696
<211> 516
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220067g02a1

<400> 4696

tgcacgtaag tacgatnctg gatccggtat ggacgagcta tgacgttgca cgcgcgcact   60

cgtcagctcg gcagatctgc tcgaggcggc ttcaaccttg tagttattct ctttcttctt   120

tattagctat ccctctcttg aaaaatctag atctcgttct tccttgatct acgttacgct   180

attagagacc ggatctgtat ggatctgaac cagatctaca cgccgatggt ggctaaggcg   240

ctggcctatc atcagatctg atgcagtggg aggcgtcagc atgctactgg taacacgagg   300

atacgtgtat gataatggga tgagaacaac gcatatgcag ccgcttacga ttgttcgatc   360

gctacacacg ctcgaatcgg attattcatg attgatccat atacagtatg tcttcgctcc   420

ggctatagta gctgcgcatc tcggatgtgg tcaaacaagt gtatgaagtg aagctatggg   480

ctggaaaatg tggacgccag agattccggg accaaa   516

<210>   4697
<211>   496
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067g03a1

<400>   4697

catttttggt agaaggtttg caatttagca tctgataact caagaagtga tgagggaaat   60

tagctcgaaa atgtatgtaa ttgattcatt tagaactttg tggaggagga atttgcatgt   120

cgagaggact tgttggctta gttgtaagac ccggcatcta tcataatgac tacatcatca   180

aggatccaat ggttagattg aaagagactg gttcatgggc atagaacacc ctatataata   240

acctgattct ttctgccagg agattcttcg agcatatggc tccacggaga attgcatgac   300

tctatctaac ccgttctagt tgccctggag tattgtatgc ctatgctcaa gtcatatata   360

caatatatcc aagtatcgtc caggagagta tgttcttaac aactactttt cgtgacaggc   420

aatgattata tatcatctaa tagatagtga cctgttgatt gatgatcttc tgcatcctaa   480

attgtaaatg ttacct   496

<210>   4698
<211>   499
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067g04a1

<400>   4698

gcgtcctttt ttttgatgtt ttatgtatac tttactgttg gcacttgcac acatgatttg   60

ccctgaacat gacgtgatct tagacgcact gtctggcgaa catgatacgg gggaacatga   120

ttggagcgca ctactattcg tagccactgt ctcaacaccc tattgaatac ggaaaactat   180

gtagcactcc aatttcaaaa cttactgcct acataagaaa attatccaca cagtagcatg   240

accgatcatt tgataatggc aggtgcatcg gaaggaaatg atgccaccta ccagacagca   300

1994

tacagtttta ttagatagag aggctgttgg caattcctct gaaagtcagg cctttcccac   360

tggtaggaat aagcccggtg tatggcattt gggccggtcc attacggttc ctaaggcttg   420

aattcgcgtt gctccctgag attttgacct gaatttcctt caagtcggat ccaaactatt   480

taaaggcttg aattgcctt   499

<210>   4699
<211>   406
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067g05a1

<400>   4699

tagtgatata ggagcaacat ttgagctaag tgcaaaccac gccacaattt cattatttac   60

attaacaccc gattctgctt aaattggcac accaccaatt cttcgcggga acccgaacca   120

ataaaacaaa ctgagagtcc catgttggga aaatcattac cattcattct tattcatcaa   180

cgtataccct tctgagccca cttgcaaatc ttatcctctc tctatggatt gaggctgctg   240

ccttccacag agggattcaa ggcagtaggg tcgacccaat tcctacaatg gtggatggca   300

cgacgcccag aatctaacgg tcaagctagt gctctcatgt gattctggtg tcggcataag   360

ctgtattgct ctaccattcg gtcgcggtca gcttgatcca acatct   406

<210>   4700
<211>   494
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067g06a1

<400>   4700

ggacgtcaac actgggagtt tgatcctaat gctggaactc cacaagaacg tgctcaagtt   60

gaaagggtac gagaggaata caaaaagaac cggttttgca ttaagcaaag cggtgaccta   120

ctcatgagaa tgcagctcac ataggagaac acgtgtgggc ccattctagc aagagtgaac   180

gtgaaagaca cggaaaacgt aacggaggaa gcattgatca ctacaatgag aaaggctatc   240

aattactatt cctctattca agcccatgat ggccactggc cagcagaatc tgctggccct   300

ttgatagtcc ttcaaccttt ggtaatggca ctctatatta cagggtccct aaatgatgtt   360

ctaggaccag aacaccagat ggaaattatt cgttatttgt ataatcatca taacgaagat   420

ggatgttggg gattgcatat agagagtcac agcacaatgt ttgggtcagc gttgagctac   480

attgccatga gaat   494

<210>   4701
<211>   392
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067g07a1

<400>   4701

ggcatgttgg ctagttggcg tccccaagag gaggttttgg ctcacccagc ggttggggga   60

ttcttgacac attgcggttg gaattcaacg ttggagagtg tgtgtgaagg ggttccaatg   120

atgagttggc ctttctttgc tgaggcacta gaccaattgt cgaattttgt gcatggagtg   180

ctggattgtg ttggagatag aggatgttaa gagggacaaa gttgaagcac ttgttcggga   240

gtcgttggct ggggtaaatg ttaatgctat gaatgcgaga tcttccatgt gtcagaattc   300

ggcacgctat gctgcgtcta atcctgatgg atcttcactt gggaacatgt acaacgggtt   360

atgacaggtc ctgatgatca catttggtcc at   392

<210>   4702
<211>   532
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067g08a1

<400>   4702

atactctgac aaccagcctg gtgtgttgat ccaggtcttt gaaggtgaaa gagcaaggac   60

taaagataac aatttaggtg aacattgatg ctagtctgt acatactact gccttcagcg   120

gtgatgctca gattactgcg tgctttgaca ttgatgccaa tgggattttg aacgtctctg   180

ccgaagataa gaccactggc cagaaaaata agatcactat caccaatgac aagggtagac   240

tgtcaaagga agatatcgag aagatggttc aagaggctga gaagtacaaa tctgaggatg   300

aagagcacac aaagaaggtt gaggccaaga atgctttgga aaactatgca tacaacatga   360

ggaacactgt gaaggatgac aaaattggtg agaaacttga tcctactgac atgaagaaga   420

ctgacgacgc aattgatcaa gctatccagt ggctagacag caaccagctc gcagaagcag   480

atgaatttga ggacaaaatg aatgaattgg aaagcatctg caatctatca tt   532

<210>   4703
<211>   657
<212>   DNA
<213>   Glycine max

<223>   unsure at all n locations
<223>   Clone ID: jC-gmfl02220067g09a1

<400>   4703

ggtttttgcg ttgcgttgca ctagcccctg cacagtagtg tggtacgatg atttgatttt   60

gataagatag gtctgtgctg tggggaaaat tggaagcatc gatcggaaaa tgcaatcgtt   120

atcgttgagt atgagtctga agagtagtag cttagtgaat tttcttttgc tgggttcaga   180

gacgagagtg agaagcagaa ggagtgtcat cgtagcgtgt gcttcagagg gagacagtgg   240

cagcagtagc acaagctcgt ttctctctcg gacccaaacc tacgctcttc ttaagcaaca   300

attgcaagta gctgctaaat ccgaggatta caaggaagcc gctagaattc gagactcgtt   360

gaagctattt gaggacgagg aacctgtttt gcgtctgagg agactattga aggaagcagt   420

tgctgaagag agatttcagg atgctgctag ttatcgtgat gagctaaaca aaattgctcc   480

acactctctt ttaaaatgtt gcagtgatgc tacaacattg gtatgatccc tactttcagt   540

taaatacttt ntgtctccta gatagttcta tcttgatgta agctatctta agagaaatac   600

aataacaagg anagcaactt cccttttta aacgtccttt aagtgattga cttttaa   657

<210>   4704
<211>   592
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067g10a1

<400>   4704

ggcaagtagc aactagcaag gtctaccaat gcacgcgcca cctcttccag tttccactat   60

tcccttccaa accctaattt tactccaatt ctccgtttca catttgcaat ttttgattcc   120

aagacacccc aaaatatgaa ttattaagag catatacgtt tttgctttct ttgttgctgc   180

1997

tgcccttcct gtgttgcata acacaaccta ttcttttacc actgtgatac ccatttgatt   240

actaagcaaa atacaactac tttctcagtt taattgagtt catttacagt tctttgcatc   300

aaattttgat tttgaattgg tgagtgtttt tgttctgtta tgagtgatga tggcactcga   360

atcttgggtt ctcagtcacc aagtgttcac ctccagttcc agattgtttt accctgcgca   420

tgagaatcgg cgaaagagct taccaatcaa agttttgggt agaaacacta gatacccatt   480

tccctttgtg cccaattgtg ttgctccatc cacttttgca aggcttcagg cttcaagttt   540

tggaacaaat gccagttact agatagaact aagttgacgt gtttaggtag ta   592

<210>   4705
<211>   495
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067h01a1

<400>   4705

aaattatatt tttcttacaa aaaaaatggc aggtgaggtg gtgaagaagg aagagtctct   60

caacctgaaa gtcactaaca agagccatgt tcaatcagag gagaaaattg gaagaaaaga   120

gtaccaattg gtcacttttg atctttccta cttggccttt tactacaacc agaagctctt   180

gttttacaag ggtgaagatt tcgagggcat ggtccaaaaa ctcaaagttg gacttggagt   240

ggtgctgaag gagttccacc aacttgctgg caagttaggg aaagatgaag aggggggtgtt   300

cagagtggag tatgatgatg acatgcttgg tgtggaggtt gttgaagctg ctgtagctga   360

tgatgaaatt ggcgtggatg atctaactgt ggctgaaatt agtaacactt aattgaagga   420

gctgatacct tatagtggta tcttgaattt ggaaggcatg cataggccct tgctggctgt   480

tcagttaacg aagct   495

<210>   4706
<211>   482
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067h02a1

<400>   4706

aaattatatt tttcttacaa aaaaaatggc aggtgaggtg gtgaagaagg aagagtctct   60

caacctgaaa gtcactaaca agagccatgt tcaatcagag gagaaaattg gaagaaaaga   120

gtaccaattg gtcactttg atcttcccta cttggccttt tactacaacc agaagctctt   180

gttttacaag ggtgaagatt tcgagggcat ggtccaaaaa ctcaaagttg gacttggagt   240

ggtgctgaag gagttccacc aacttgctgg caagttaggg aaagatgaag aggggggtgtt   300

cagagtggag tatgatgatg acatgcttgg tgtggaggtt gttgaagctg ttgtagctga   360

tgatgaaatt ggtgtggatg atctaacttg gggtgaaatt agtaacacta atttgaagga   420

gctgatacct tatagtggta tcttgaatat gggaggcatg cattggccct tgctggctgt   480

tc   482

<210>   4707
<211>   483
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067h03a1

<400>   4707

agaagaggag agagaaagag atagagaacc cgttcttctt tttttccatt aacattttca   60

atctctttca cctaagacac gttcctcttt ccattccttt cttcctccgt cccattctcg   120

aattggcgtg tgcctcttgc tatccctcaa aggttgtgct aaggaggttg aatccgagaa   180

tttcattgcg ttttgctttg cgttgacttt tgtggatgca gaagataact gataaatctg   240

atgataggat cactggggtt gtgaatcaat gcatgttggg aagtgggaat gctctacttg   300

cttaaatatg tagtcattaa tttgtatttg atatttagtg tagtctttt tgtttgactc   360

aatgacaaag ggtggggag ttggatccaa ggttcaagtc ttgacaagct tagagttatt   420

ttctgattct gaactgcaaa aatcatgaaa aaaaattatt cgatgttgat ccatgatatc   480

ata   483

<210>   4708
<211>   495
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067h04a1

<400>   4708

```
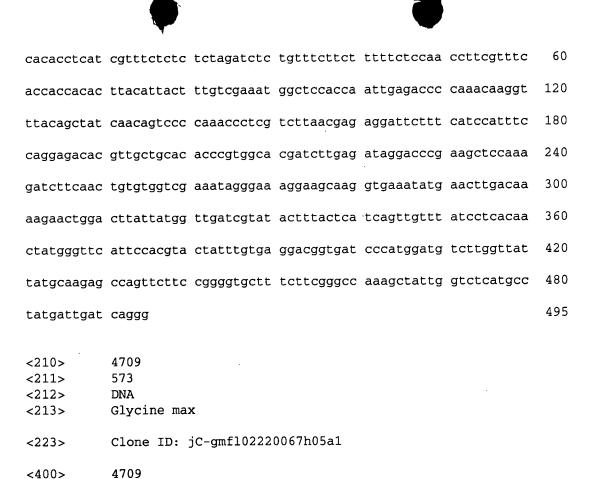cacacctcat cgtttctctc tctagatctc tgtttcttct ttttctccaa ccttcgtttc   60

accaccacac ttacattact ttgtcgaaat ggctccacca attgagaccc caaacaaggt  120

ttacagctat caacagtccc caaaccctcg tcttaacgag aggattcttt catccatttc  180

caggagacac gttgctgcac acccgtggca cgatcttgag ataggacccg aagctccaaa  240

gatcttcaac tgtgtggtcg aaatagggaa aggaagcaag gtgaaatatg aacttgacaa  300

aagaactgga cttattatgg ttgatcgtat actttactca tcagttgttt atcctcacaa  360

ctatgggttc attccacgta ctatttgtga ggacggtgat cccatggatg tcttggttat  420

tatgcaagag ccagttcttc cggggtgctt tcttcgggcc aaagctattg gtctcatgcc  480

tatgattgat caggg                                                   495
```

<210>   4709
<211>   573
<212>   DNA
<213>   Glycine max

<223>   Clone ID: jC-gmfl02220067h05a1

<400>   4709

```
tgcctcggac gtaatcggaa tcggatccgt atgacgagtt atgacgggtg cacgcgcctc   60

actcgaagct gggcattctg ttcgagatga gtttgaggaa gaagaatgag aagaaagagc  120

aggggcaaac gtatgcgtgc ggcatctgca caactctga gtccttcttc cctctacgcc  180

attcccattc tttgggatgc gtatgatacc atctgcattc actgcaataa cacaggcgag  240

gaggccaagg aggatggact ttcgatttgc aacggaaggg ctgacccgt cgctgtccat  300

gccacctgcc ttgtcaccgg acctaaattt gacggttccg gtaacttctg ctgcccctac  360

tgctggtaca agcgcgccgt tgacacgtgt cgacgcctca gggagaaggc cctggaagcc  420

aagggagact agtcacgctt tctggacaat cacgaccacg cacgtgcggc tgcacatgtg  480

gatctggttg gacaggatag tgaagaactc atggaggaaa caggaacaca agcacagtct  540

atagataatc aagatgagga ggcagaagca cgt                                573
```

<210>   4710
<211>   497
<212>   DNA
<213>   Glycine max
```